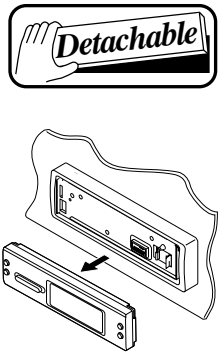
JVC

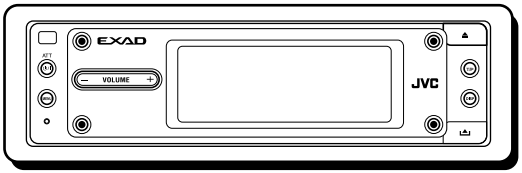
ENGLISH
DEUTSCH
FRANÇAIS
NEDERLANDS

CD RECEIVER
CD-RECEIVER
RECEPTEUR CD
CD-RECEIVER

KD-LHX502/KD-LHX501

EXAD





PiCT

R·D·S

COMPACT disc DIGITAL AUDIO TEXT

This unit is equipped with the display demonstration. To cancel it, see page 7.
Dieses Gerät ist mit einer Demonstrationsfunktion für das Display ausgestattet. Auf Seite 7 wird beschrieben, wie Sie diese Demonstrationsfunktion deaktivieren können.
Cet appareil est équipé d'une démonstration des affichages. Pour l'annuler, référez-vous à la page 7.
Dit toestel heeft een display-demonstratiefunctie. Zie bladzijde 7 voor het annuleren van deze functie.

For installation and connections, refer to the separate manual.
Angaben zu Einbau und Verkabelung entnehmen Sie bitte der gesonderten Anleitung.
Pour l'installation et les raccordements, se référer au manuel séparé.
Zie de afzonderlijke handleiding voor details aangaande het installeren en verbinden van het toestel.

INSTRUCTIONS

BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING

LVT1136-001B
[E/EX]

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

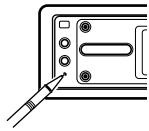
CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

Warning:

If you need to operate the receiver while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

How to reset your unit

Press the reset button on the control panel using a ball-point pen or a similar tool. This will reset the built-in microcomputer.



Your preset adjustments—such as preset channels or sound adjustments—will also be erased.

Cautions:

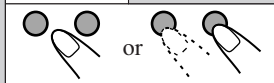
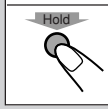
- Do not operate the touch panel using a ball-point pen or a similar tool with the sharp tip (it may damage the touch panel).
- If the temperature inside the car is below 0°C, the movement of animation and text scroll will be halted on the display to prevent the display from being blurred. LOW TEMP appears on the display. When the temperature increases, and the operating temperature is resumed, these functions will start working again.

Important!

How to read this manual:

To make the explanations as simple and easy-to-understand as possible, we have adapted the following methods:

- **Some related tips and notes are explained later in the sections "More about This Receiver" (see page 59), but not in the same section explaining the operations.** If you want to know more about the functions, or if you have a doubt about the function, go to the section and you will find the answers.
- Button and touch panel operations are explained only with the illustrations as follows:

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.

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For security reasons, a numbered ID card is provided with this unit, and the same ID number is imprinted on the unit’s chassis. Keep the card in a safe place, as it will help the authorities to identify your unit if stolen.

For safety....

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car....

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Location of the Buttons

Control panel

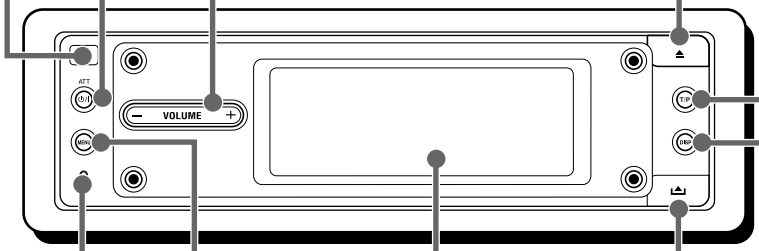
⏻/I ATT (Standby/On/Attenuator) button
Turns on and off the power, and also attenuates the sounds.

T/P button
Activates or deactivates TA Standby Reception (and Road Traffic News Standby Reception).

Remote sensor*

VOLUME+/– button
Adjust the volume level.

⏏ (eject) button
Open the control panel (and eject the disc if any).



MENU button
Show the Main Menu.

Touch Panel
Used to operate the receiver.

Reset button
Reset the built-in microcomputer.

⏏ (control panel release) button
Detach the control panel.

DISP (display) button
Change the information shown on the display.

* DO NOT expose the remote sensor on the control panel to strong light (direct sunlight or artificial lighting).

WARNINGS on the battery:

- Store the battery in a place where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire. Doing any of these things may cause the battery to give off heat, crack, or start a fire.
- Do not leave the battery with other metallic materials. Doing this may cause the battery to give off heat, crack, or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack, or start a fire.
- Do not poke the battery with tweezers or similar tools. Doing this may cause the battery to give off heat, crack, or start a fire.

Remote controller

⏻/I/ATT (Standby/On/Attenuator) button

ANGLE button
Adjust the control panel angle.

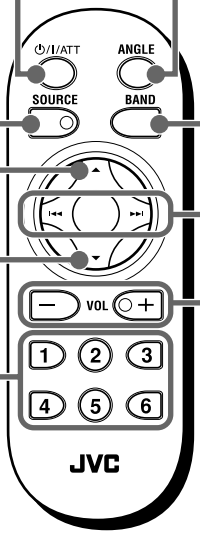
SOURCE button
Select the source.

BAND button
Select the band for FM/AM and DAB.

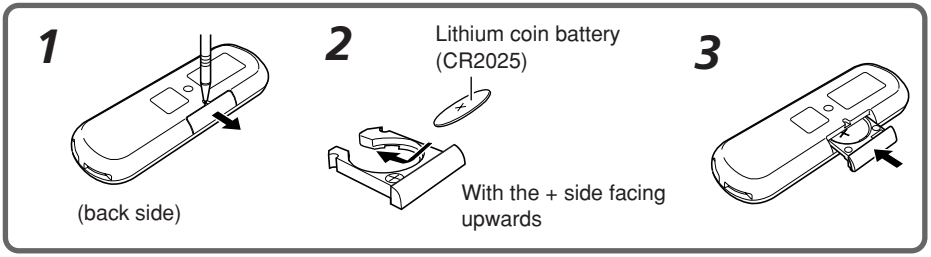
▲/▼ buttons
- Change the preset stations.
- Change the services for DAB.
- Change the folder on the MP3/WMA discs.

|◄◄/►►| buttons
- Searches for stations (or ensembles)—Auto Search, if pressed, or
  Skips frequencies after pressed and held (Manual Search).
- Change the tracks on the disc.

Number buttons
- Select the preset station (or a service) if pressed, or
  Store a station (or a service) if pressed and held.
- Select the tracks while playing CDs.
- Select the folders while playing MP3/WMA discs.
- Select the discs while operating the CD changer.



VOL (volume) +/– buttons



CAUTION:

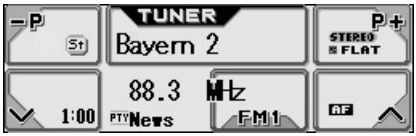
DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.

This receiver is equipped with the steering wheel remote control function. If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller.
- See the Installation/Connection Manual (separate volume) for connection to utilize this function.

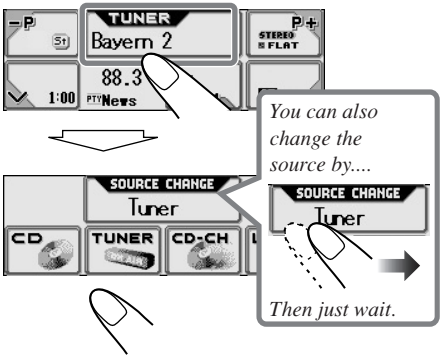
Basic Operations

1 Turn on the power

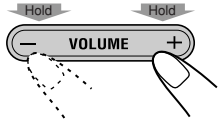
The Operation screen for last selected source is recalled.

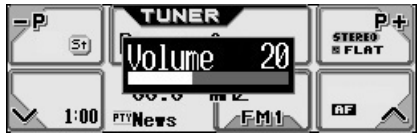


2 Select the source

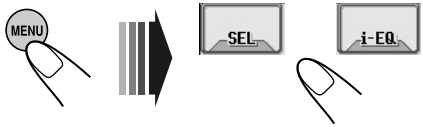


3 Adjust the volume





4 Adjust the sound

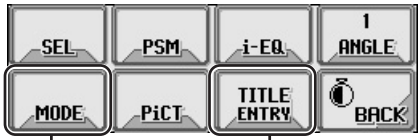


• For details, see pages 24 to 26.

When operating the touch panel
Make sure to touch the area inside the key icon boundary, but not on the boundary.

Main touch panels used in this section

Main Menu

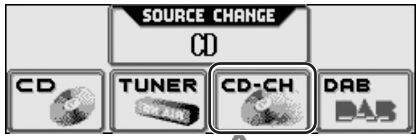


Not displayed when the source is “LINE-IN” (external component)

Not displayed when the source is “TUNER” or “DAB”

• To return to the previous screen, press “BACK” (if shown). See also page 59.

Source Selection screen



Either “CD-CH” or “LINE-IN” appears depending on the “Ext Input” setting (see page 37).

What information is shown on the touch panel

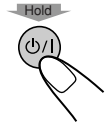
The following information are shown commonly for all sources.

- If you press DISP on the control panel, the touch panel will show the different information or different screens. (Details about this will be explained later separately for each source.)

To drop the volume in a moment (ATT):

To restore the sound, press it again.

To turn off the power:



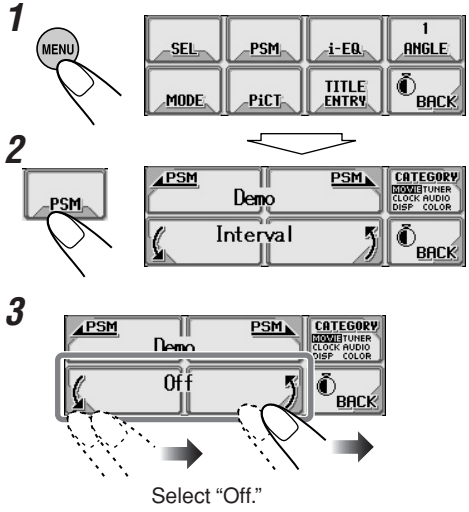
CAUTION on Volume Setting:

Discs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a disc and adjust it as required during playback.

Canceling the display demonstration

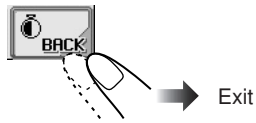
When shipped from the factory, display demonstration has been activated, and starts automatically when no operations are done for about 20 seconds.

To cancel the display demonstration, follow the procedure below:



To be continued…

4



To activate the display demonstration, repeat the same procedure and select any one other than "Off" in step ***3***.

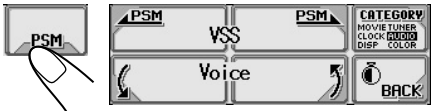
- For more details, see "To show the display demonstration" on page 35.

Setting the clock

You can also set the clock system to 24 hours or 12 hours.

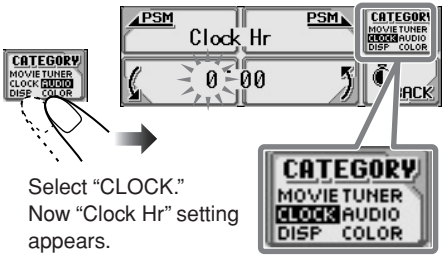
1

2



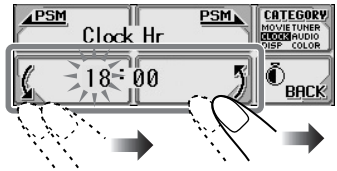
The last selected item appears.

3



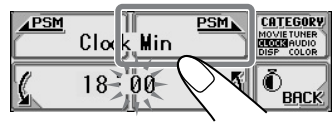
Select "CLOCK."
Now "Clock Hr" setting appears.

4



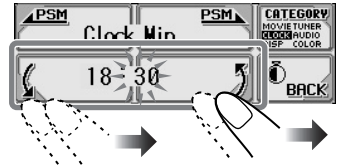
Adjust the hour.

5



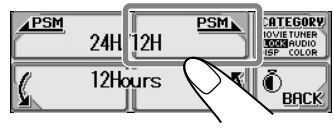
Select "Clock Min."

6



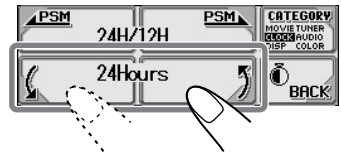
Adjust the minute.

7



Select "24H/12H."

8



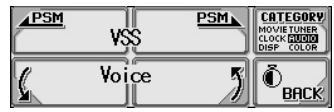
Select "24Hours" or "12Hours."

9

To check the current clock time when the unit is turned off...

To change the voice support system

You can select either "Beep" or "Voice" for the voice support system (VSS).



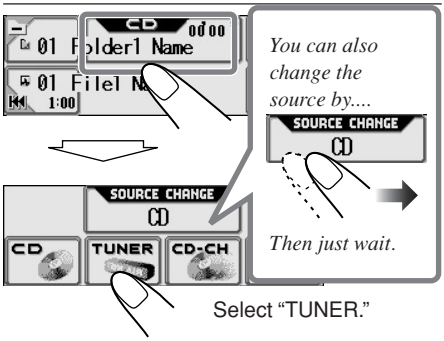
Furthermore, if you select "Voice," you can select the language—English, German, or French.

To change them, see page 37.

Radio Operations

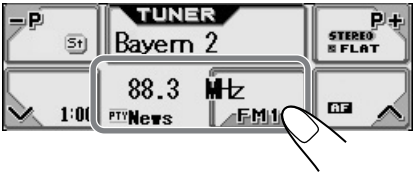
Listening to the radio

1 Select the Tuner



Select "TUNER."

2 Select the band (FM/AM)



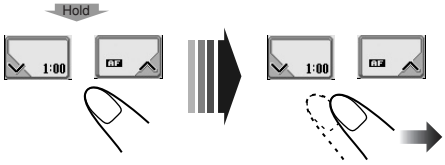
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

3 Start searching for a station

"Auto Search" begins.
When a station is received, searching stops.

To stop searching, press the same icon.

To tune in to a station manually
In step **3** above...

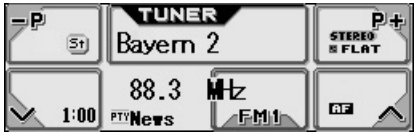


Activate "Manual Search."

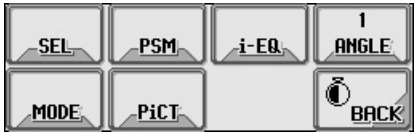
Select station frequencies.

Main touch panels used in this section

Tuner Operation screen

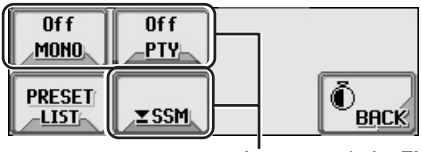


Main Menu



• To return to the previous screen, press "BACK" (if shown).

Tuner Mode Menu



Appears only for FM.

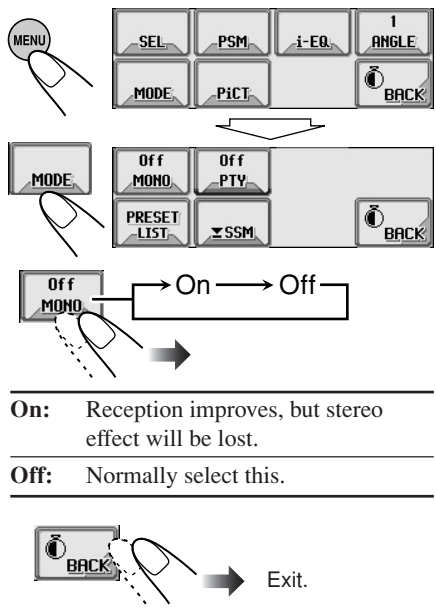
Preset Station List*1

Appears only for FM.

- Press to change the FM band (1→2→3→...).
- Hold to change the FM band (3→2→1→...).

*1 The lists show either the station frequency or PS name (the first 8 characters, see page 11).

When an FM stereo broadcast is hard to receive:



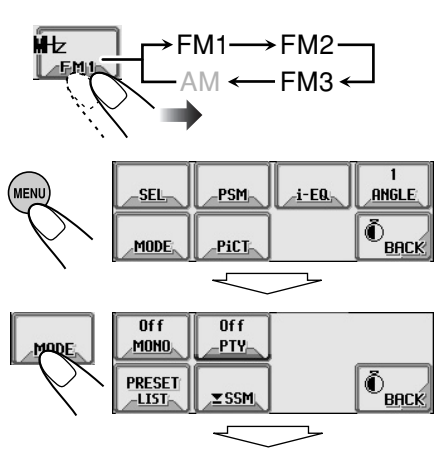
On:	Reception improves, but stereo effect will be lost.
Off:	Normally select this.

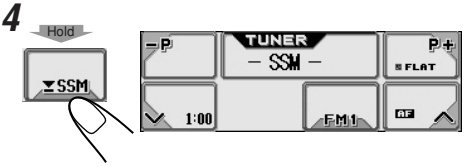
Storing stations in memory

You can preset 6 stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

• This is only for FM bands.

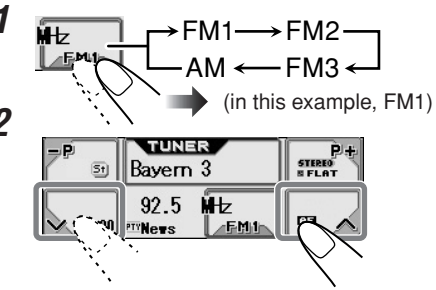




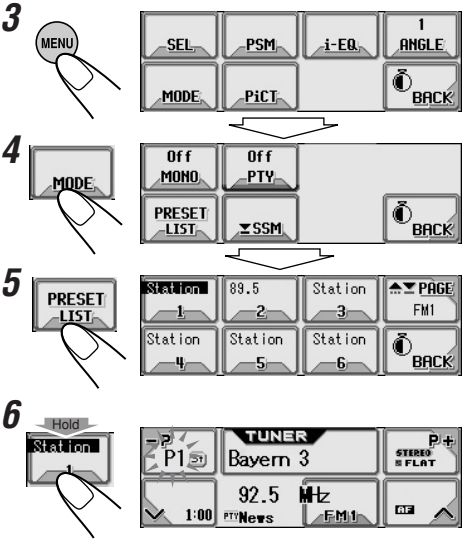
Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

Manual presetting

Ex. Storing an FM station of 92.5 MHz into the preset number 1 of the FM1 band.

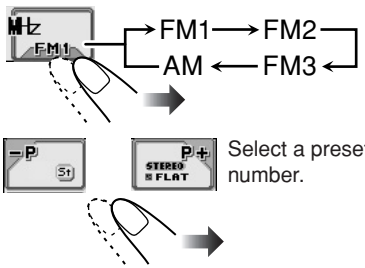


• Holding P+ or –P on the Tuner Operation screen can also display the Preset Station List (see step ***5*** below).



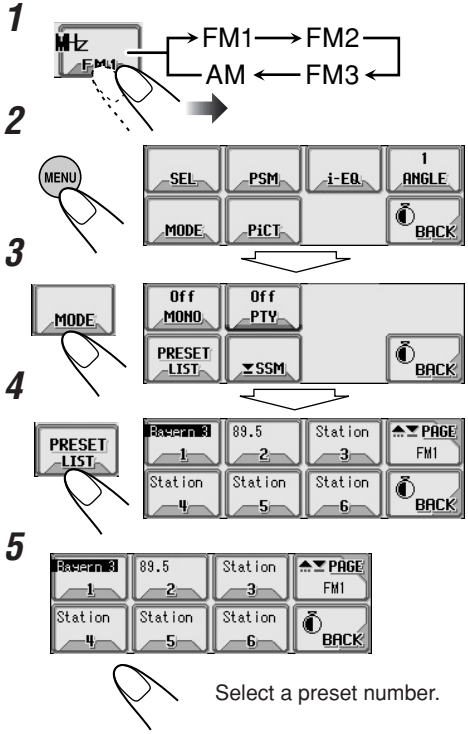
Select “1” in this example.

Tuning in to a preset station

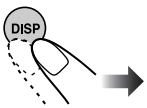


To select a preset station using the Preset Station List

- Holding P+ or −P on the Tuner Operation screen can also display the Preset Station List.



Changing the display pattern



Tuner Operation screen

Station name (PS) for FM RDS stations

Preset number if any

Lights while receiving an FM stereo broadcast

PTY code (see page 17)

Clock time is enlarged.

Audio Level Meter* (see page 36)

Graphic screen*
(Appears only after you have download a file, see page 31)

Goes back to the Tuner Operation screen.

* These screens will be temporarily canceled when you operate the unit.

FM RDS Operations

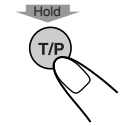
Searching for your favorite programme

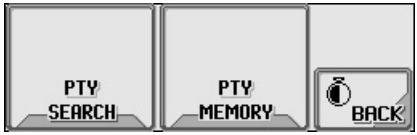
You can tune in to a station broadcasting your favorite programme by searching for a PTY code (see page 17).

- You can store your 6 favorite programme types in the Preset PTY list.

1 Show the "PTY SEARCH/PTY MEMORY" screen

While listening to an FM station....





2 Select "PTY SEARCH"

Preset PTY Code List appears (see below).

3 Select a PTY code

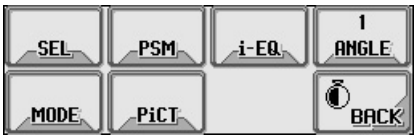
Press to go to the next list; hold to go back to the previous list.

PTY Search starts.

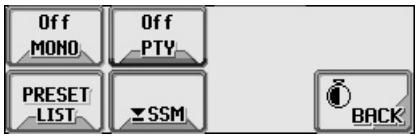
- If there is a station broadcasting a programme of the same PTY code as you selected, that station is tuned in.

Main touch panels used in this section

Main Menu



Tuner Mode Menu (for FM)



- To return to the previous screen, press "BACK" (if shown).

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc.

By receiving the RDS data, this unit can do the following:

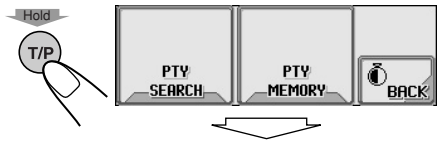
- Programme Type (PTY) Search
- Standby Reception of Traffic Announcement (TA) or your favorite programme (PTY)
- Programme Search
- Tracing the same programme automatically—Network-Tracking Reception

To store your favorite programme types in the Preset PTY Code List

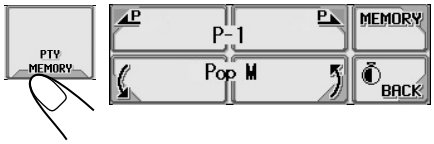
When shipped from the factory, the following 6 programme types have been stored in the Preset PTY List.

1	2	3
Pop M	Rock M	Easy M
4	5	6
Classics	Affairs	Varied

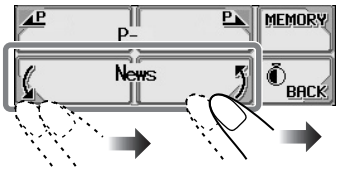
1



2

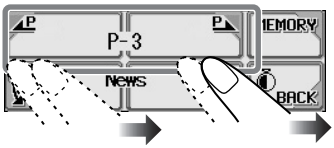


3



Select a PTY code

4



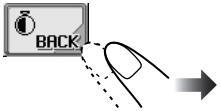
Select a preset number.

5

Selected PTY code is stored in the selected preset number.

6 **Repeat Steps *3* to *5* to store other PTY codes into other preset numbers.**

7



Exit

Using the Standby Reception

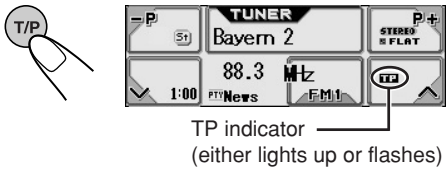
You can use two types of Standby Reception—TA Standby Reception and PTY Standby Reception.

Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

- If a station starts broadcasting a traffic announcement, “Traffic News” appears on the display, and this unit temporarily tunes in to the station. The volume changes to the preset TA volume level (see page 37).

To activate TA Standby Reception:



- If the TP indicator lights up, TA Standby Reception is activated.

- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception).
  To activate TA Standby Reception, tune in to another station providing these signals. When you tune in to such a station, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

To deactivate the TA Standby Reception:

The TP indicator goes off.

Using PTY Standby Reception

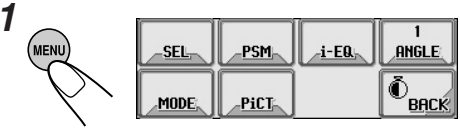
PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from any source other than AM.

To select your favorite PTY code for PTY Standby Reception

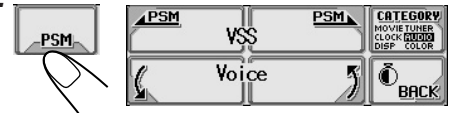
You can select your favorite programme type for PTY Standby Reception.

- When shipped from factory, PTY Standby Reception has been set to work for searching for “News” programmes.

1

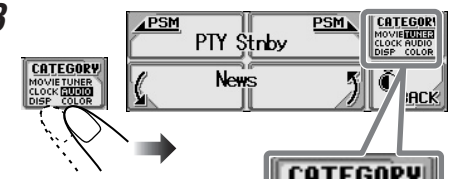


2



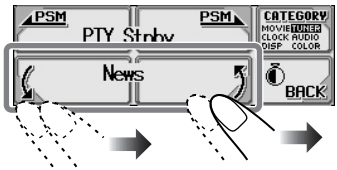
The last selected item appears.

3



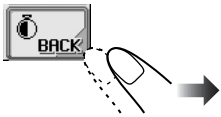
Select “TUNER.”
Now “PTY Stnby” setting appears.

4



Select a PTY code (see page 17).

5

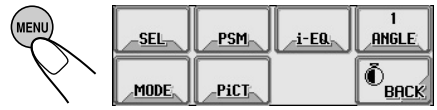


Exit

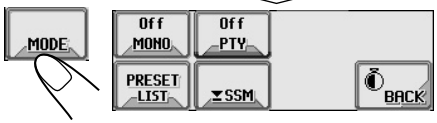
To activate PTY Standby Reception

- After activating PTY Standby Reception, you can change the source without canceling PTY Standby Reception (except to AM).

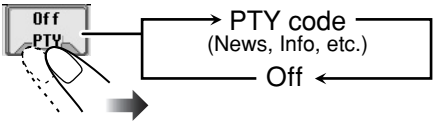
1 **While listening to an FM station....**



2

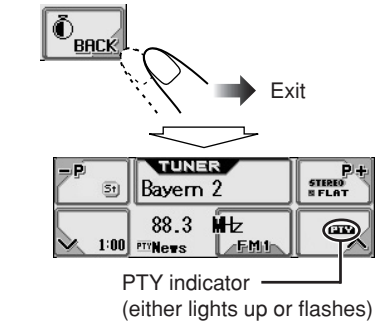


3



PTY code:	Activates PTY Standby Reception for the selected PTY code.
Off:	Cancels the Reception.

4



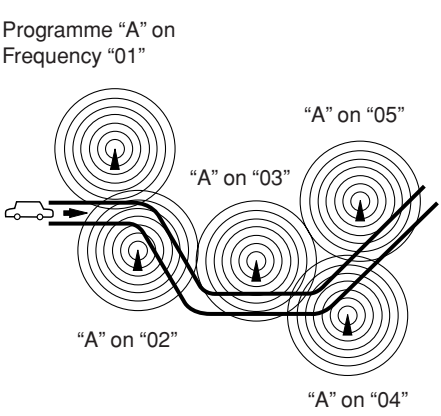
- If the PTY indicator lights up, PTY Standby Reception is activated.

- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
  To activate PTY Standby Reception, tune in to another station providing these signals. When you tune in to such a station, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.

Tracking the same programme— Network-Tracking Reception

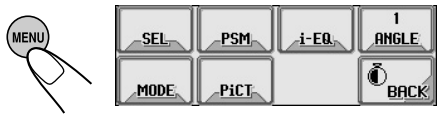
When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to **another FM RDS station of the same network**, possibly broadcasting the same programme with stronger signals.

- When shipped from the factory, Network-Tracking Reception is activated with "AF (see the next page)" selected.

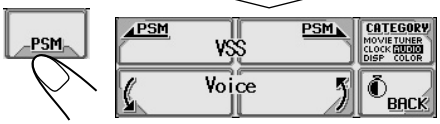


To change the Network-Tracking Reception setting, follow the procedure below:

1



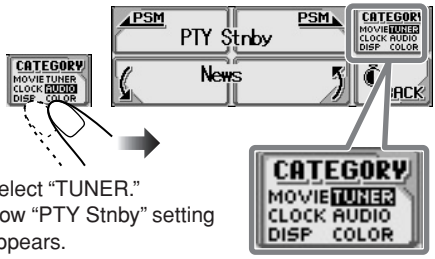
2



The last selected item appears.

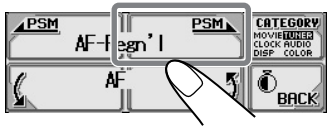
To be continued…

3



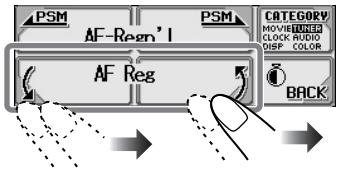
Select “TUNER.”
Now “PTY Stnby” setting appears.

4



Select “AF-Regn’l.”

5

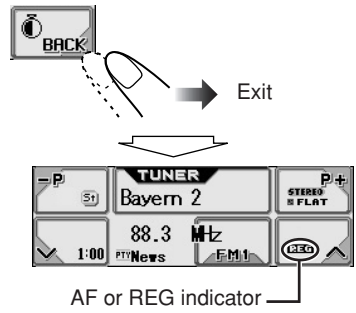


Select an option.

AF:	The unit switches to another station (the programme may differ from the one currently received.) • The AF indicator lights up.
AF Reg:	The unit switches to another station broadcasting the same programme. • The REG indicator lights up.
Off*:	Cancels the Reception. • Neither the AF indicator nor the REG indicator lights up.

* *Displayed only when “DAB AF” is set to “Off.” See page 57.*

6

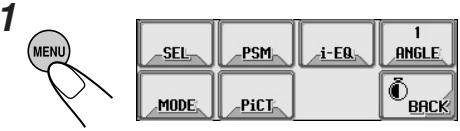


Using Programme Search

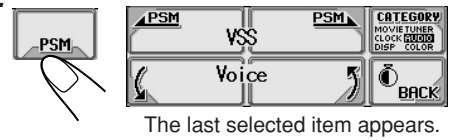
When you select a preset station, the station of the frequency stored is tuned in.
However, when the preset station is an RDS station, something different will happen with Programme Search activated.
If the signals from that preset station are not sufficient enough, this unit, using the AF (Alternative Frequency) data, tunes in to another station (which may be broadcasting the same programme as the original preset station is broadcasting).

To activate Programme Search, follow the procedure below:

1

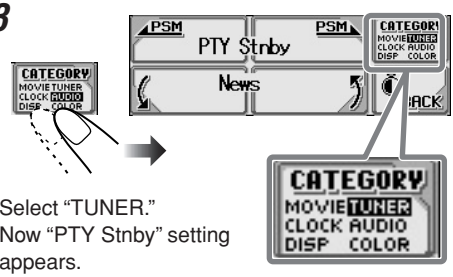


2



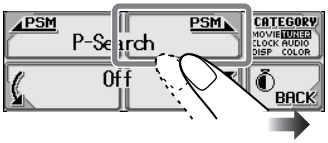
The last selected item appears.

3



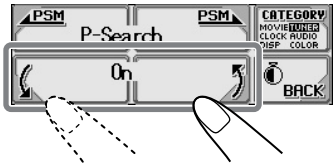
Select “TUNER.”
Now “PTY Stnby” setting appears.

4



Select “P-Search.”

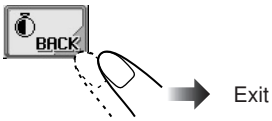
5



Select “On.”

On:	Activates Programme Search.
Off:	Cancels the Search.

6



To deactivate Programme Search, follow the procedure above and select “Off” in step ***5***.

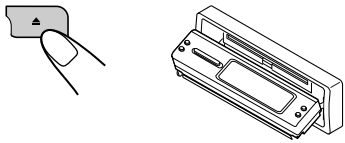
PTY codes

News:	News
Affairs:	Topical programmes expanding on current news or affairs
Info:	Programmes which impart advice on a wide variety of topics
Sport:	Sport events
Educate:	Educational programmes
Drama:	Radio plays
Culture:	Programmes on national or regional culture
Science:	Programmes on natural science and technology
Varied:	Other programmes like comedies or ceremonies
Pop M:	Pop music
Rock M:	Rock music
Easy M:	Easy-listening music
Light M:	Light music
Classics:	Classical music
Other M:	Other music
Weather:	Weather information
Finance:	Reports on commerce, trading, the stock market, etc.
Children:	Entertainment programmes for children
Social:	Programmes on social activities
Religion:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
Phone In:	Programmes where people can express their views either by phone or in a public forum
Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Leisure:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
Jazz:	Jazz music
Country:	Country music
Nation M:	Current popular music from another nation or region, in that country’s language
Oldies:	Classic pop music
Folk M:	Folk music
Document:	Programmes dealing with factual matters, presented in an investigative style

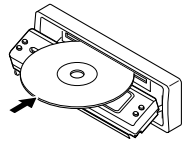
Basic Disc Operations

1 Open the control panel

The unit turns on, then...

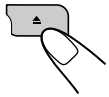


2 Insert a disc



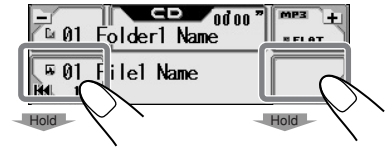
The unit draws the disc, the control panel closes then goes back to the previous position (see page 42), and playback starts automatically.

To stop play and eject the disc:

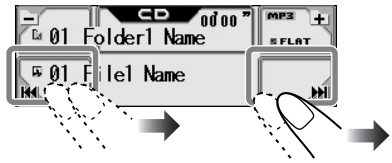


To return the control panel to its previous position, press it again.

To fast-forward or reverse the track:

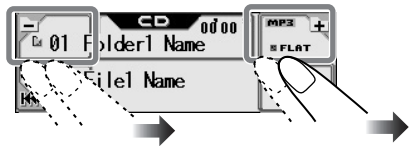


To go to the next or previous tracks:



To go to the next or previous folders:

For MP3/WMA discs only:



Main touch panels used in this section

CD/CD Text Operation screen

MP3 Operation screen

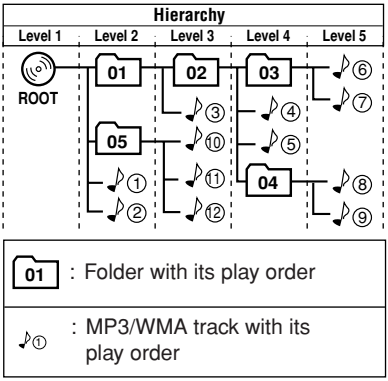
WMA Operation screen

- *When a track or folder whose number is greater than 99 is selected, the icon in front of the number (, , ,) goes off (to show its assigned 3-digit number).*

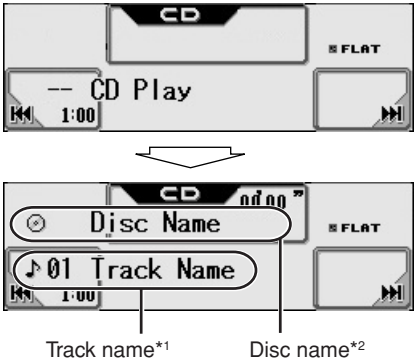
About MP3 and WMA discs

MP3 and WMA (Windows Media® Audio) "**tracks**" (words "file" and "track" are used interchangeably) are recorded in "**folders**." "Root" is similar to the root of a tree. Every track and folder can be linked to and be accessed from the root.

- When an MP3 or a WMA folder includes an image <jll> file edited by Image Converter (Wide)—supplied in the CD-ROM, you can show the image on the display while the tracks in the folder are played back. (See pages 35 and 61 for details.)



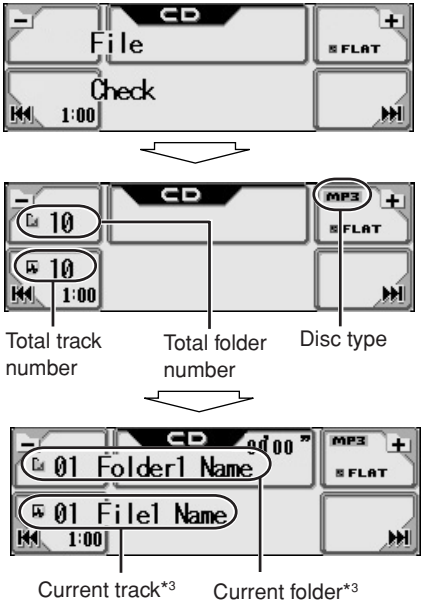
- **Display indications when inserting an audio CD or a CD Text:**



*1 *Appear only for CD Texts. ("No Name" appears if no name is recorded).*

*2 *Appear for CD Texts and CDs if it has been assigned. ("No Name" appears if no name is recorded or assigned).*

- **Display indications when inserting an MP3 or a WMA disc:**



*3 *If "Tag" is set to "On" (see page 36), ID3 tag information will appear on the display if the disc has an ID3 tag.*
The album name/performer with (disc) indicator appears on the display instead of the folder name; while track title with (track) indicator appears instead of the track name.

CAUTIONS:

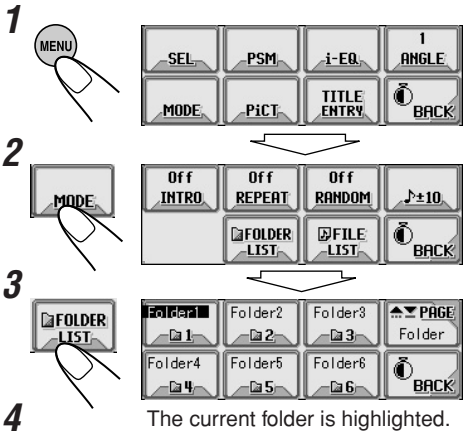
- Do not insert 8 cm discs (single CDs) into the loading slot. (Such discs cannot be ejected.)
- Do not insert any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.
- Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.

Advanced Disc Operations

Locating a track or folder on a disc

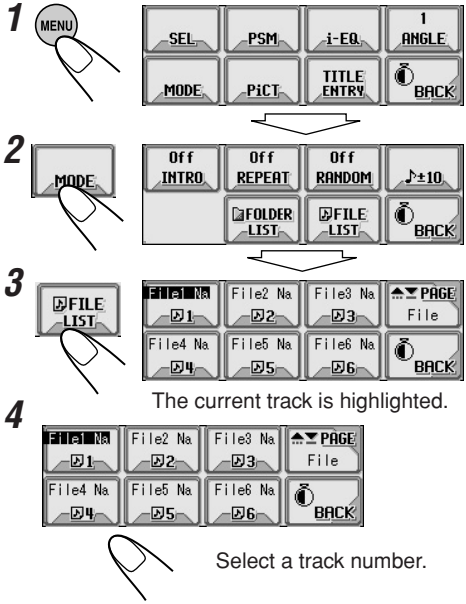
To locate a folder on the screen (only for MP3/WMA discs)

- Holding + or − on the Disc Operation screen can also display the Folder List.



- If you select the currently selected folder (highlighted on the screen), the File List screen (see step ***3*** below), then you can select a track to start with.

To locate a track on the screen (only for MP3/WMA discs)



Main touch panels used in this section

Disc Mode Menu screen

Appears only for MP3/WMA.

Skip 10 screen

- To return to the previous screen, press "BACK" (if shown).

Folder List screen (only for MP3/WMA)*1

*2

File (Track) List screen (only for MP3/WMA)*1

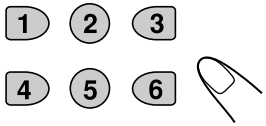
*2

*1 The lists show the folder/file names actually recorded (the first 8 characters).

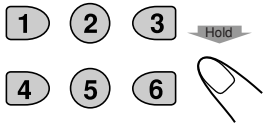
*2 Press to go to the next list; hold to go back to the previous list.

To locate a track (or folder) directly using the remote controller

- To select a track (or folder for MP3 and WMA discs) number from 1 – 6:



- To select a track (or folder for MP3 and WMA discs) number from 7 (1) – 12 (6):



To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To skip 10 tracks at a time

You can quickly reach a desired track on a disc including many tracks.

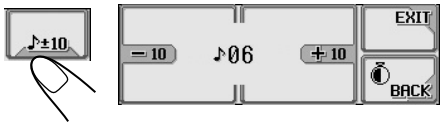
- For MP3 and WMA, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6

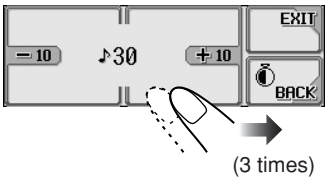
1

2

3



4

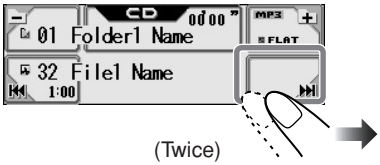


First time you press "+10" or "–10," the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).
Then, each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected, and vice versa.

5

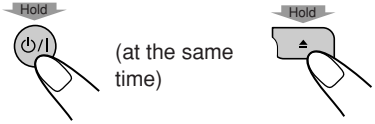
6



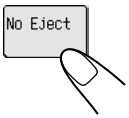
Prohibiting disc ejection

You can lock a disc in the loading slot.

1



2



"No Eject" flashes, and the disc cannot be ejected.

To cancel the prohibition, repeat the same procedure (press "Eject OK" in step ***2***). "Eject OK" flashes.

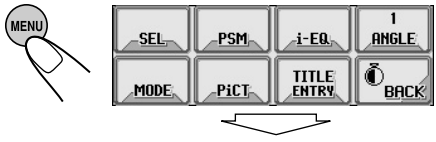
Selecting playback modes

You can use only one of the following playback modes at a time.

To play back only intros (Intro Scan)

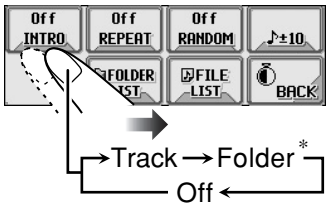
You can play back the first 15 seconds of each track sequentially.

1



2

3



Mode	Plays the beginnings of
Track :	All tracks of the disc. • While playing, INT lights up.
Folder* :	First tracks of all folders. • While playing, INT lights up.
Off :	Cancels Intro Play.

* "Folder" can be selected for MP3 and WMA discs only.

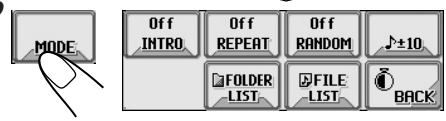
4

To play back tracks repeatedly (Repeat Play)

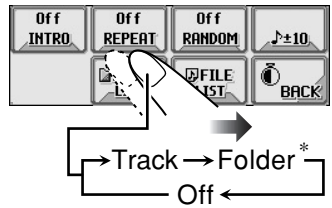
You can repeat playback.

1

2



3



Mode	Plays repeatedly
Track :	Current track. • While playing, RPT lights up.
Folder* :	All tracks of the current folder. • While playing, RPT lights up.
Off :	Cancels Repeat Play.

* "Folder" can be selected for MP3 and WMA discs only.

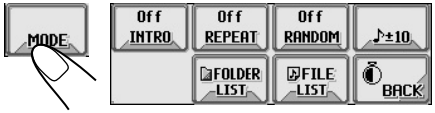
4

To play back tracks at random (Random Play)

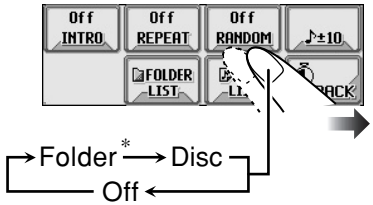
You can play back tracks at random.

1

2



3



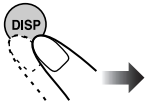
Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. • While playing, RND lights up.
Disc :	All tracks on the disc. • While playing, RND lights up.
Off :	Cancels Random Play.

* "Folder" can be selected for MP3 and WMA discs only.

4

Exit.

Changing the display pattern



Disc Operation screen

Clock time is enlarged.

Audio Level Meter (see page 36)

Graphic screen
(Appears only after you have download a file, see page 31)

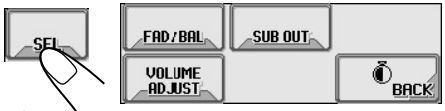
Goes back to the Disc Operation screen.

Sound Adjustments

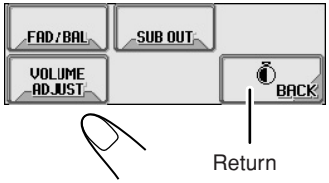
Setting the basic sound selection menu—SEL

1 Show the Main Menu

2 Show the basic sound selection menu

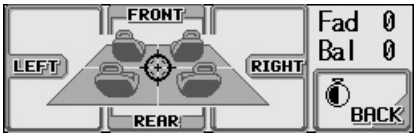


3 Select a setting item

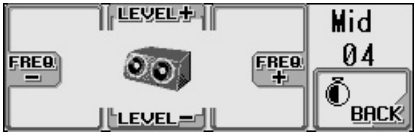


4 Adjust the item

To adjust fader and balance:

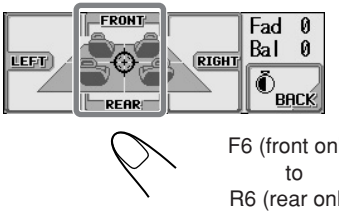


To select the cutoff frequency and adjust the subwoofer output level:

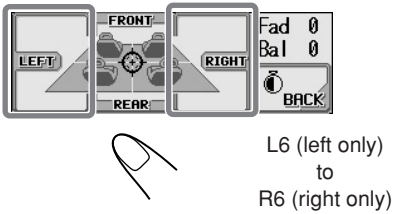


To adjust the input level of each source:

To adjust fader and balance—FAD/BAL:
Adjust fader—speaker output balance between the front and rear speakers.

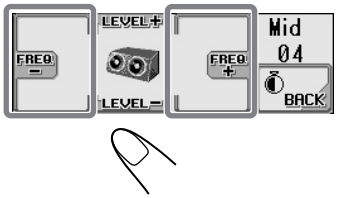


Adjust the balance—speaker output balance between the left and right speakers.



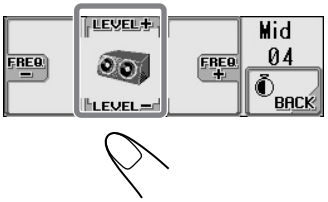
These adjustments cannot affect the Voice Support System (VSS: see page 37) output. VSS sound always comes out of all speakers connected.

To adjust subwoofer output—SUB OUT:
Select an appropriate cutoff frequency level according to the subwoofer connected.



Low:	Frequencies higher than 55 Hz are cut off to the subwoofer.
Mid:	Frequencies higher than 85 Hz are cut off to the subwoofer.
High:	Frequencies higher than 115 Hz are cut off to the subwoofer.

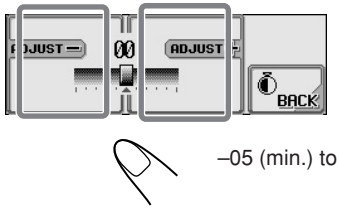
Adjust the subwoofer output level.



00 (min.)
to
08 (max.)

To adjust the input level of each source —VOLUME ADJUST:
This setting is required for each source except FM. Before making an adjustment, select an appropriate source for which you want to make an adjustment.
Once you have made an adjustment, it is memorized, and the volume level will automatically increase or decrease by adjusted level whenever you change the source.

Adjust to match the input level to the FM sound level.



–05 (min.) to +05 (max.)

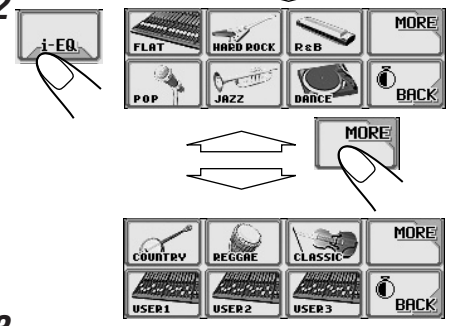
Selecting preset sound modes (i-EQ: intelligent equalizer)

You can select a sound mode suitable to the music genre.

Available sound modes:
- **Flat** (To cancel the sound mode. No sound mode is applied)
- **Hard Rock**
- **R & B**
- **Pop**
- **Jazz**
- **Dance**
- **Country**
- **Reggae**
- **Classic**
- **User 1, User 2, User 3**

1

2



3

Select a sound mode.

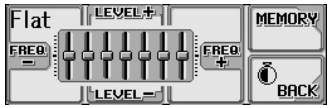
4

Exit.

Storing your own sound modes

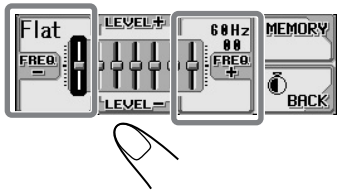
You can adjust the sound modes and store your own adjustments in memory.

1 **Repeat steps *1* to *3* on page 25 to select a sound mode you want to adjust.**



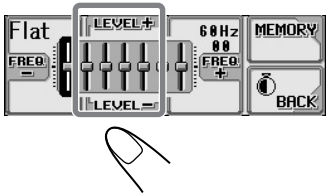
Ex. When you select “Flat”

2



Select the frequency band—60Hz, 150Hz, 400Hz, 1kHz, 2.4kHz, 6kHz, 12kHz.

3



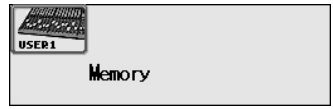
Adjust the level of the selected band within the range of –05 to +05.

4 **Repeat steps *2* and *3* to adjust the other frequency bands.**

5

6

Select one of the user modes to store your adjustment (ex. when you selecting “USER1”).



For details about the preset settings of each sound mode, see below.

Sound Mode	Preset equalizing values						
	60 Hz	150 Hz	400 Hz	1 kHz	2.4 kHz	6 kHz	12 kHz
Flat	00	00	00	00	00	00	00
Hard Rock	+03	+03	+01	00	00	+02	+01
R & B	+03	+02	+02	00	+01	+01	+03
Pop	00	+02	00	00	+01	+01	+02
Jazz	+03	+02	+01	+01	+01	+03	+02
Dance	+04	+02	00	–02	–01	+01	+01
Country	+02	+01	00	00	00	+01	+02
Reggae	+03	00	00	+01	+02	+02	+03
Classic	+02	+03	+01	00	00	+02	00
User 1	00	00	00	00	00	00	00
User 2	00	00	00	00	00	00	00
User 3	00	00	00	00	00	00	00

Graphic Displays

PiCT

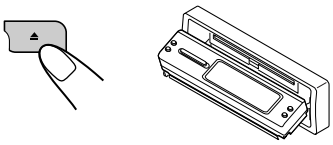
Basic procedure

Before starting the following procedure, prepare a CD-R including still images (pictures) and animations (movies).

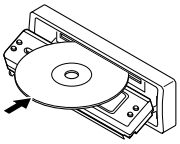
- With Image Converter (Wide) included in the supplied CD-ROM, you can create your own images and animations. (The supplied CD-ROM also includes sample images and animations.)

1 Open the control panel

The unit turns on, then...



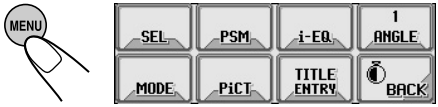
2 Insert the prepared CD-R



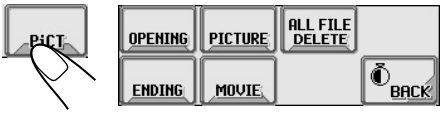
The unit draws the disc, the control panel closes, then goes back to the previous position (see page 42).

- If the disc includes playable audio files, playback starts.

3 Show the Main Menu



4 Show the Picture Menu Screen



5 Select the item

- To download/delete the file for "Opening" screen ➡ **OPENING** (see page 28)
- To download/delete the file for "Ending" screen ➡ **ENDING** (see page 28)
- To download/delete the files for graphic screen ➡ **PICTURE/MOVIE** (see pages 28 and 29)
- To delete all memorized files ➡ **ALL FILE DELETE** (see page 31)

Main touch panels used in this section

Picture Menu

• To return to the previous screen, press "BACK" (if shown).

*1 The lists show the folder/file names actually recorded (the first 8 characters).

*2 Press to go to the next list; hold to go back to the previous list.

Folder List screen*1

File List screen*1

IMPORTANT:

- Refer to Image Converter PDF files included in the "Manual" folder of the supplied CD-ROM.
- Still images (pictures) should have <**jll**>, and animations (movies) should have <**jla**> as their extension code in their file names.
- Before you download or delete the files, observe the following:
  – Do not download a file while driving.
  – Do not turn off the ignition key of the car while downloading or deleting a file.*
  – Do not detach the control panel while downloading or deleting a file.*

* If you do it, the file download or deletion will not be done correctly.

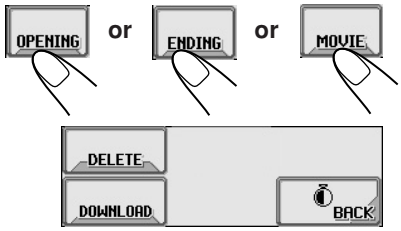
Downloading the file for "OPENING /ENDING/MOVIE"

- **OPENING**: Opening screen
  To download/delete an animation (consisting of 30 frames maximum) to be shown after the unit is turned on.
- **ENDING**: Ending screen
  To download/delete an animation (consisting of 30 frames maximum) to be shown before the unit is turned off.
- **MOVIE**: Graphic screen
  To download/delete an animation (consisting of 90 frames maximum) to be shown while playing a source.

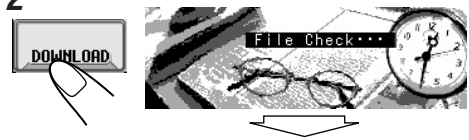
To download an animation

- It takes a long time to download an animation. For details, see page 61.
- To activate the downloaded animation, see page 31.

1 **Repeat steps *1* to *4* on page 27, then in step *5*...**



2



Only the folders including the <jla> files are shown.

3

Select a folder. (once for the currently selected; twice for the others)

4

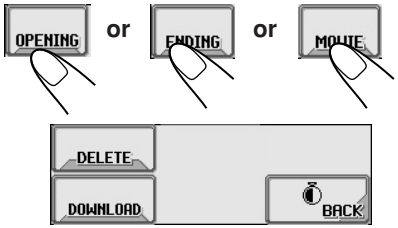
Select a file.

File name of the selected file appears.

5

To delete the stored animation:

1 **Repeat steps *1* to *4* on page 27, then in step *5*...**



2

File name of the stored file appears.

3

Downloading the files for "PICTURE"

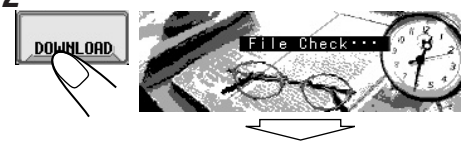
Download pictures (total of 30 still images: each one frame—see also page 61) which can be used for the graphic screen.

- To activate the downloaded animation, see page 31.

To download pictures

1 **Repeat steps *1* to *4* on page 27, then in step *5*...**

2



Only the folders including the <jll> files are shown.

3

Select a folder. (once for the currently selected; twice for the others)

4

Select a file.

File name of the selected file appears.

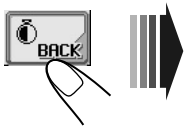
5

To be continued…

6 Download more files if you want.

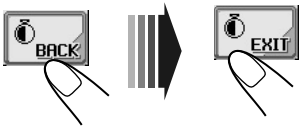
• To select a file from the same folder:

• To select a file from another folder:



Repeat steps ***3*** to ***5***.

7 After downloading all the files you want...



To delete the stored pictures:

1 Repeat steps *1* to *4* on page 27, then in step *5*...

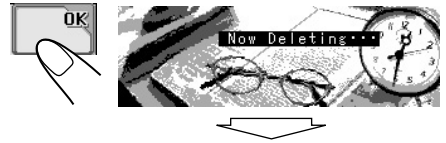
2

3

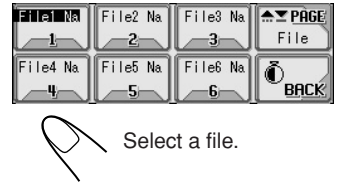
Select a file.

File name of the selected file appears.

4



5 Delete more files if you want.



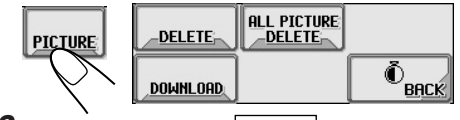
Select a file.

6 After deleting all the files you do not want...

Exit.

To delete all the stored pictures at a time:

1 Repeat steps *1* to *4* on page 27, then in step *5*...



2

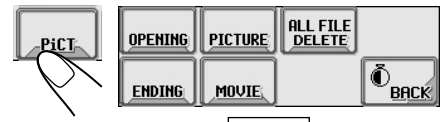
3

Deleting all files

You can easily delete all files—animations and pictures stored for "OPENING/ENDING/ MOVIE/PICTURE."

1

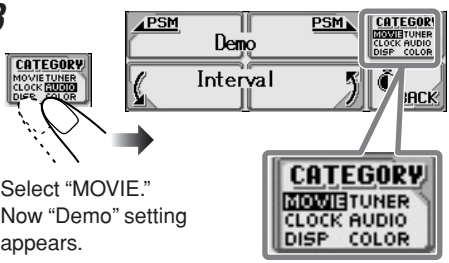
2



3

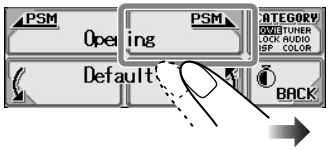
4

3



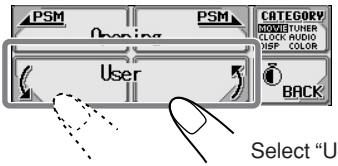
Select "MOVIE."
Now "Demo" setting appears.

4



Select "Opening" or "Ending."

5



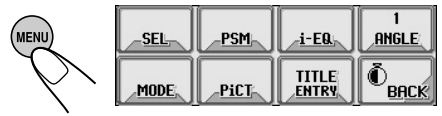
Select "User."

Default:	Factory-preset animation is used.
User:	Your own animation is used.

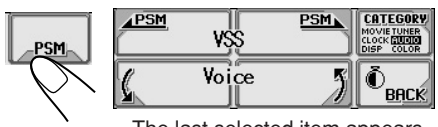
Activating the downloaded files

To activate the animations stored for opening and ending screens

1



2



The last selected item appears.

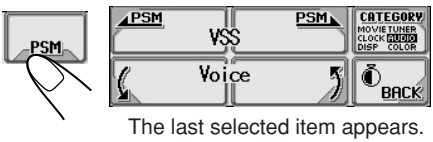
6

Exit.

To activate the graphic screen using either picture or movie

1

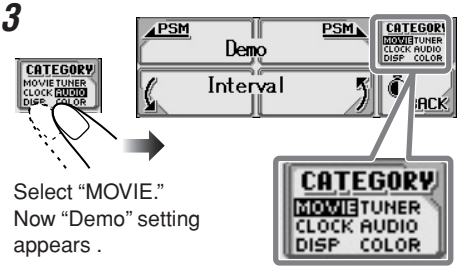
2



The last selected item appears.

To be continued…

3

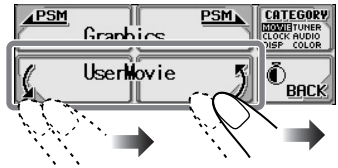


Select “MOVIE.”
Now “Demo” setting appears .

4

Select “Graphics.”

5



Select a setting you want.

UserPict.:	One of your still images stored in “PICTURE” is activated for your graphic screen. (To select an image, see the next column.)
UserMovie:	Your animation stored in “MOVIE” is activated for your graphic screen.
UserSlide:	Your still images stored in “PICTURE” are activated and shown in sequence for your graphic screen.

6

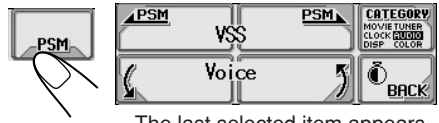
Exit.

To select a still image for “UserPict.”

- If “UserPict.” is not selected for “Graphics” you cannot select “UserPict.” in step ***4*** below.

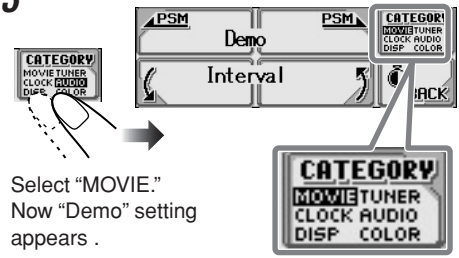
1

2



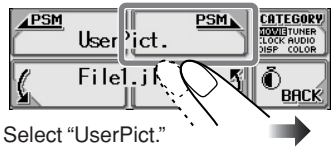
The last selected item appears.

3



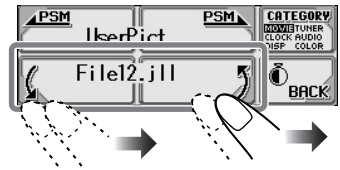
Select “MOVIE.”
Now “Demo” setting appears .

4



Select “UserPict.”

5



Select a file you want.

6

Exit.

General Settings—PSM

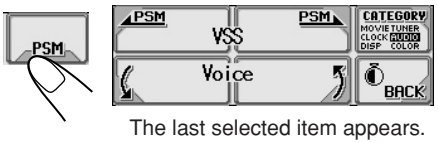
Basic procedure

You can change the Preferred Setting Mode (PSM) items listed on the table that follows.

- The PSM items are grouped into six categories—MOVIE, CLOCK, DISP (display), TUNER, AUDIO, and COLOR.

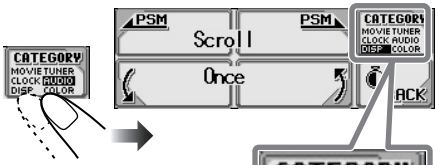
1 Show the Main Menu

2 Show the PSM setting screen



The last selected item appears.

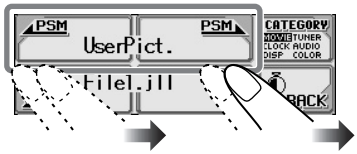
3 Select a PSM category



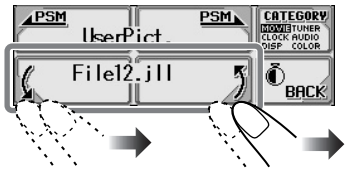
Ex. When selecting "DISP"
The first listed PSM item in the selected category appears.

*Without selecting a PSM category, you can move to a different category by simply changing the PSM items (in step **4**).*

4 Select a PSM item



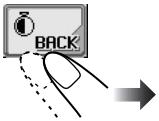
5 Change or adjust the setting



6 Change or adjust other PSM items

If necessary, repeat steps ***3*** to ***5*** to change other PSM item settings.

7 Exit



PSM items			Selectable settings		Initial	Pages
MOVIE	**Demo**	Demonstration	All Time ↔ ImageLink ↔ Off ↔ Interval		Interval	7, 35
	Graphics	Graphics	UserPict. ↔ UserMovie ↔ UserSlide		UserPict.	32
	KeyIn CFM	Key-in confirmation	Off	On	On	35
	Opening *1	Opening screen	Default	User	Default	31
	Ending *1	Ending screen	Default	User	Default	31
	UserPict. *2	User picture	From the stored files		First stored	32
CLOCK	**Clock Hr**	Clock hour	0 — 23 (1 — 12)		0 (0:00)	8
	Clock Min	Clock minute	00 — 59		00(0:00)	8
	24H/12H	Clock system	12Hours	24Hours	24Hours	8
	Auto Adj	Auto clock adjustment	Off	On	On	35
DISP	**Scroll**	Scroll mode	Once ↔ Auto ↔ Off		Once	36
	Dimmer	Dimmer	Auto ↔ Off ↔ Time Set ↔ On		Auto	38
	From– To *3	Dimmer timer	Any hour — Any hour		18:00–7:00	38
	Contrast	Contrast	1 — 10		5	36
	LCD Type	Display type	Auto ↔ Positive ↔ Negative		Auto	36
	Font Type	Font type	1	2	1	36
	Tag	Tag display	Off	On	On	36
	Theme	Level meter	Meter 1 ↔ Meter 2 ↔ Meter 3		Meter 1	36
	Key Info	Key Information	Off	On	On	36
TUNER	**PTY Stnby**	PTY Standby	29 programme types (see page 17)		News	14
	AF-Regn'l	Alternative frequency/ regional reception	AF ↔ AF Reg ↔ Off *4		AF	16
	TA Volume	Traffic announcement volume	00 — 50 *5 (or 00 — 30)		20	37
	P-Search	Programme search	Off	On	Off	17
	IF Filter	Intermediate frequency filter	Wide	Auto	Auto	37
	DAB AF *6	DAB Alternative frequency	Off	On	On	57
	Announce *6	Announcement standby	9 announcement types		Travel	55

PSM items			Selectable settings		Initial	Pages
AUDIO	**VSS**	Voice support system	Beep	Voice	Voice	37
	VSS Level	VSS level	Off ⟷ 1 ⟷ 2 ⟷ 3 ⟷ 4		3	37
	Language	Language	English ⟷ Deutsch ⟷ Français ⟷		English	37
	Ext Input *7	External Input	Changer	Line In	Changer	37
	Telephone	Telephone mute	Muting1 ⟷ Muting2 ⟷ Off ⟷		Off	37
	Amp Gain	Amp gain control	Low PWR	High PWR	High PWR	37
COLOR	**SOURCE**	Source	All sources		All Source	39
	USER DAY (USER NIGHT)	User color	USER DAY	USER NIGHT	USER DAY	40
	R	Red	00 — 11		USER DAY: 07 USER NIGHT:05	40
	G	Green	00 — 11		USER DAY: 07 USER NIGHT:05	40
	B	Blue	00 — 11		USER DAY: 07 USER NIGHT:05	40

*1 *Displayed only after a downloadable file is stored in memory.*
*2 *Displayed only after a downloadable file is stored in memory and while selecting "UserPict." for "Graphics."*
*3 *Displayed only when "Dimmer" is set to "Time Set."*
*4 *Displayed only when "DAB AF" is set to "Off."*
*5 *Depending on the "Amp Gain" setting.*
*6 *Displayed only when the DAB tuner is connected.*
*7 *Displayed only when the source is not an external component.*

To show the display demonstration

If no operation is done for about 20 seconds, display demonstration starts.

- **All Time**: Display demonstration (animation) appears.
- **ImageLink**: A still image included in an MP3/WMA folder appears while playing back the tracks in the folder (see page 19).
- **Interval**: Display demonstration (animation) and playback source indication appears alternately.
- **Off**: Cancels the demonstration.

To turn on and off the animation screens—KeyIn CFM

You can turn on and off the animation screens—opening, ending, source changing, and i-EQ selecting screens.

- **On**: An animation screens appear...
  - – When you turn on or off the power,
  - – When you change the sources, and
  - – When you select an i-EQ.
- **Off**: Cancels the animation screens.

To adjust the clock automatically —Auto Adj

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal.

- **On**: Activates auto clock adjustment.
- **Off**: Cancels the adjustment.

To select the scroll mode—Scroll

The entire text information is shown by scrolling if it cannot be shown at a time.

- **Once**: While showing the disc information: scrolls the disc information only once.
  While showing the DAB text: scrolls the detailed DAB text.
- **Auto**: While showing the disc information: repeats the scroll (in 5-second intervals).
  While showing the DAB text: scrolls the detailed DAB text.
- **Off**: While showing the disc information: cancels scroll mode.
  While showing the DAB text: shows only headline if any.

To adjust the display contrast level —Contrast

You can adjust the contrast to make the display clear and legible.

To select the display illumination pattern—LCD Type

You can select the display illumination patterns.

- **Auto**: Positive pattern will be selected during the day time*, while negative pattern will be used during the night time*.
- **Positive**: Positive (normal) pattern of the display.
- **Negative**: Negative pattern of the display (except still images, animations, and audio level meters).

* *Depending on the "Dimmer" setting.*

To select the font type used on the display—Font Type

You can select either of the two fonts (**1** or **2**).

To turn the tag display on or off—Tag

An MP3 and WMA track can contain track information called "Tag" where its album name, performer, track title, etc. are recorded.

- **On**: Shows the Tag display while playing MP3 or WMA tracks.
- **Off**: Cancels the Tag display. Only the folder name and track name appear.

For MP3 tracks only: There are two versions– ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). When both ID3v1 and ID3v2 are recorded, ID3v2 will be shown.

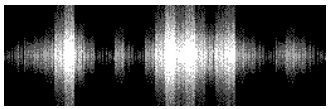
To select the audio level meter—Theme

You can select the level meter.

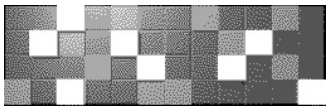
- To show the level meter, press DISP repeatedly.

- **Meter 1**:

- **Meter 2**:



- **Meter 3**:



To show or delete the key icon boundary on the touch panel—Key Info

Key icons have their own boundaries on the touch panel to make the operations easy. These boundaries can be shown or deleted according to your preference.

- **On**: To show the key icon boundary.
- **Off**: To delete the key icon boundary.

Though "Off" is selected, the key icon boundary will be shown while you are operating the touch panel. About 5 seconds after the operation, it goes off.

To set the Traffic Announcement volume—TA Volume

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.

To change the FM tuner selectivity —IF Filter

In some areas, adjacent stations may interfere with each other. If this interference occurs, noise may be heard.

- **Auto**: When this type of interference occurs, this unit automatically increases the tuner selectivity so that interference noise will be reduced. (But the stereo effect will also be lost.)
- **Wide**: Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will not be lost.

To change the voice support system —VSS

You can select either “Beep” or “Voice” for the voice support system (VSS).

- **Voice**: Guidance is announced in the language you have selected (see “To select the language for the VSS —Language” on the right column) when you operate the unit.
- **Beep**: A Beep sounds when you operate the unit.

To deactivate the VSS, select “Off” for “VSS Level” (see below).

To adjust the VSS level—VSS Level

You can adjust the volume level of the VSS sounds.

- By selecting “Off,” you can deactivate the VSS.

To select the language for the VSS —Language

You can select the language for the voice support system—English, German (Deutsch), or French (Français).

- The indications on the display will also be shown in the selected language.

To select the external component to use —Ext Input

To use the external component connected to the CD changer jack as the playback source through this unit, you need to select which component to use.

- **Changer**: To use a JVC CD changer.
- **Line In**: To use any external component.

To select the telephone muting —Telephone

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either “Muting1” or “Muting2,” whichever mutes the sounds from this unit. During telephone muting, disc play pauses.

- **Muting1**: Selects this if this setting can mute the sounds while using the cellular phone.
- **Muting2**: Selects this if this setting can mute the sounds while using the cellular phone.
- **Off**: Cancels the telephone muting.

To select the amplifier gain control—Amp Gain

You can change the maximum volume level of this unit. When the maximum power of the speakers is less than 50 W, select “Low PWR” to prevent them from being damaged.

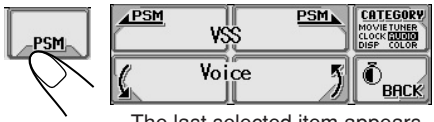
- **Low PWR**: You can adjust the volume level up to “Volume 30.”
- **High PWR**: You can adjust the volume level up to “Volume 50.”

Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.

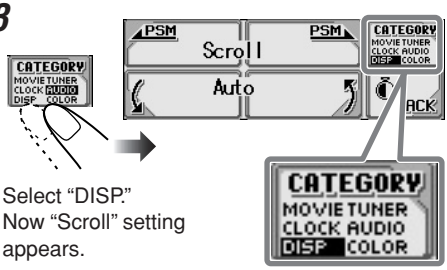
1

2



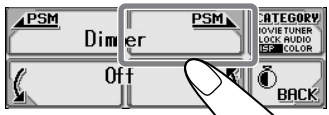
The last selected item appears.

3



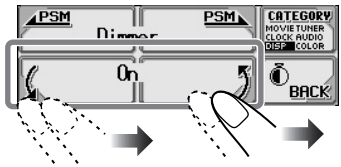
Select "DISP."
Now "Scroll" setting appears.

4



Select "Dimmer."

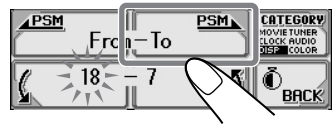
5



Select one of the following.

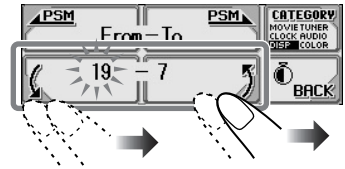
Auto:	Activates Auto Dimmer. ➡ **Go to step *10*.** • When you turn on the car head lights, the display dims.
Off:	Cancels Auto Dimmer. ➡ **Go to step *10*.**
On:	Always dims the display. ➡ **Go to step *10*.**
Time Set:	Set the timer for dimmer. ➡ **Go to step *6*.**

6



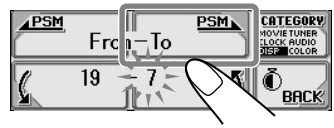
Select "From–To."

7

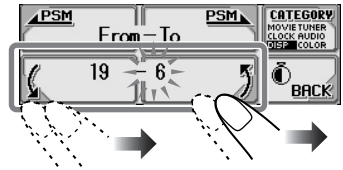


Set the dimmer start time.

8



9



Set the dimmer end time.

10

Exit.

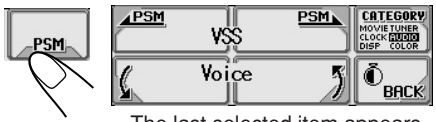
Changing the display color

You can select your favorite color for each source (or for all sources).

Setting the desired color for the source

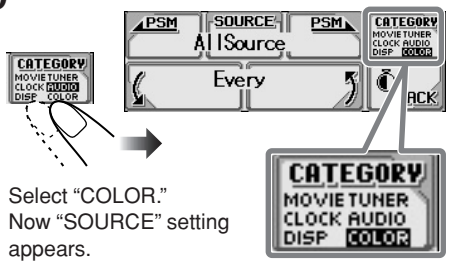
1

2



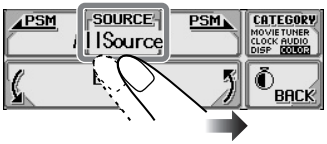
The last selected item appears.

3



Select "COLOR."
Now "SOURCE" setting appears.

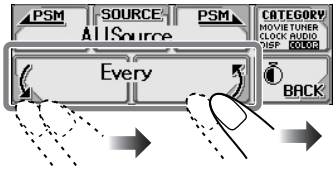
4



Select the source to which you apply the color.

- When you select "All Source," you can apply the same color to all sources.

5



Select the color.

Every*1 ⇄ Aqua ⇄ Sky ⇄ Sea ⇄ Leaves ⇄ Grass ⇄ Apple ⇄ Rose ⇄ Amber ⇄ Honey ⇄ Violet ⇄ Grape ⇄ Pale ⇄ User*2 ⇄
(back to the beginning)

*1 *When you select "Every," the color changes every 2 seconds (changing to every color listed above except "User").*

*2 *When you select "User," the user-edited colors—"USER DAY" and "USER NIGHT" will be applied. (See page 40.)*

6 **Repeat steps *4* and *5* to select the color for each source (except when selecting "All Source" in step *4*).**

7

Exit.

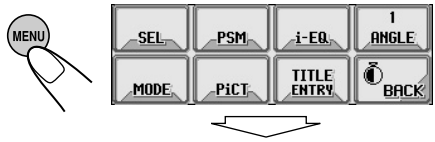
Creating your own color—User

You can create your own colors—"USER DAY" and "USER NIGHT," and select them for the display color.

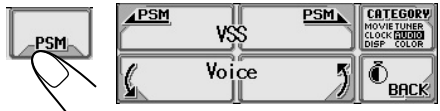
- **USER DAY**: Can be used as your user color during the day time*.
- **USER NIGHT**: Can be used as your user color during the night time*.

** Depending on the "Dimmer" setting*

1

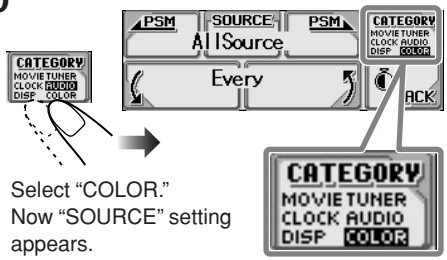


2



The last selected item appears.

3

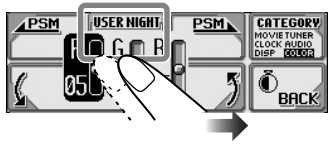


Select "COLOR."
Now "SOURCE" setting appears.

4

Select user color—either "USER DAY" or "USER NIGHT" will be selected.

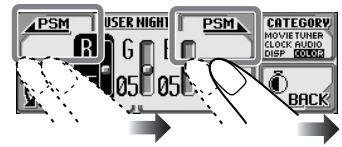
5



Select either "USER DAY" or "USER NIGHT" if necessary.

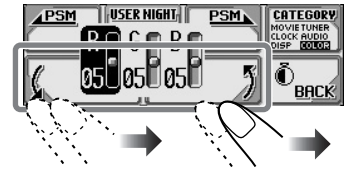
6 Adjust the selected user color.

1)



Select (highlight) one of three primary colors—R/G/B.

2)



Adjust the color

3) **Repeat steps 1) and 2) to adjust the other primary colors.**

7 Repeat steps *5* and *6* to adjust the other user color—"USER DAY" or "USER NIGHT."

8 After adjustment is over...

Exit.

Other Main Functions

Assigning titles to the sources

You can assign titles 40 CDs (both in this unit and in the CD changer) and the external component.

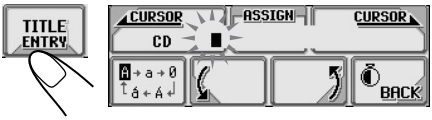
Source	Maximum number
CDs:	32 characters
External component:	8 characters

- You cannot assign a title to CD Text, MP3, and WMA discs.
- For available characters, see page 62.

1 **Prepare the source.**
- **For a CD in this unit**: Insert a CD.
- **For CDs in the CD changer**: Select "CD-CH," then select a disc number.

2

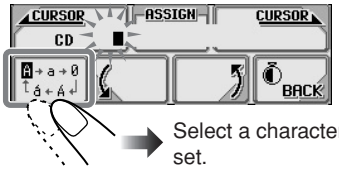
3



Ex. When you have selected "CD" and assign a title to the loaded disc

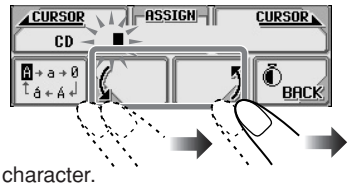
4 **Assign a title.**

1)



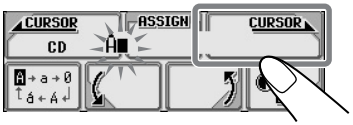
Select a character set.

2)



Select a character.

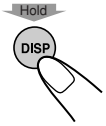
3)



Move to the next character position.

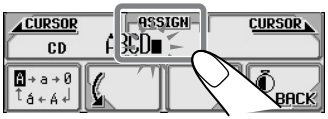
4) Repeat steps 1) to 3) until you finish entering the title.

To erase the characters....



The entire title (all entered characters) are erased at a time.

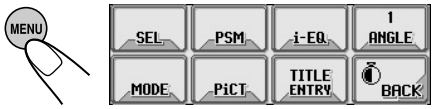
5



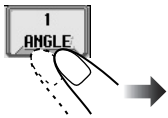
Changing the control panel angle

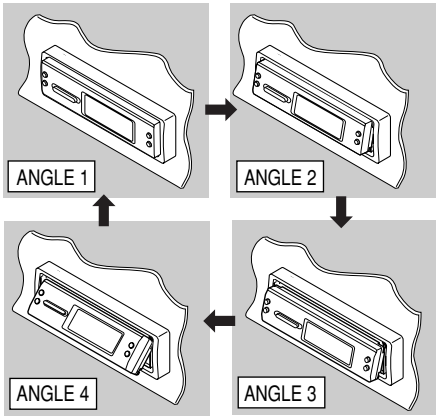
You can change the angle of the control panel.

1

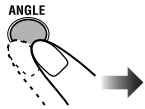


2





You can use the ANGLE button on the remote controller for changing the panel angle.



On the remote controller

CAUTION:

NEVER insert your finger in between the control panel and the unit, as it may get caught or hurt.

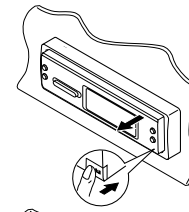
Detaching the control panel

- When detaching and attaching the control panel, be careful not to damage the connectors.

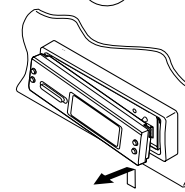
Detaching the control panel

Before detaching the control panel, be sure to turn off the power.

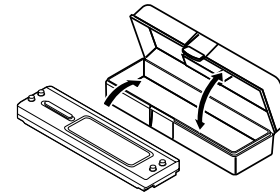
1



2

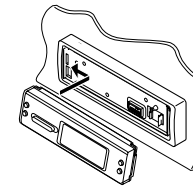


3

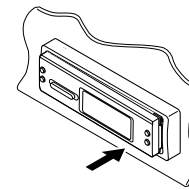


Attaching the control panel

1



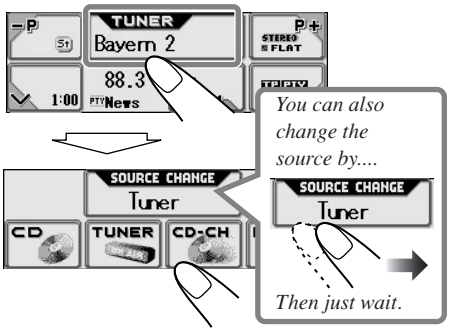
2



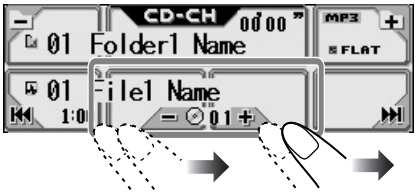
Basic CD Changer Operations

With JVC MP3-compatible CD changer connected, you can play back your original CD-Rs and CD-RWs recorded either in audio CD format or in MP3 format.

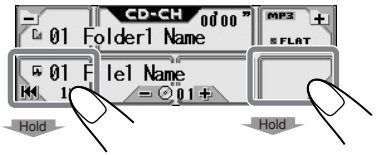
1 Select CD changer



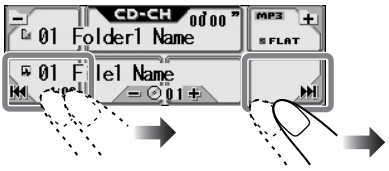
2 Select a disc



To fast-forward or reverse the track:

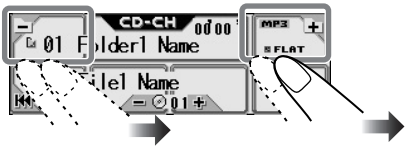


To go to the next or previous tracks:



To go to the next or previous folders:

For MP3 discs only:



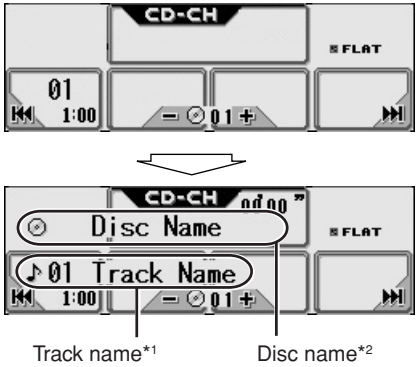
Main touch panels used in this section

CD Changer Operation screen: CD/CD Text

CD Changer Operation screen: MP3

- *When a track or folder whose number is greater than 99 is selected, the icon in front of the number (, , ,) goes off (to show its assigned 3-digit number).*

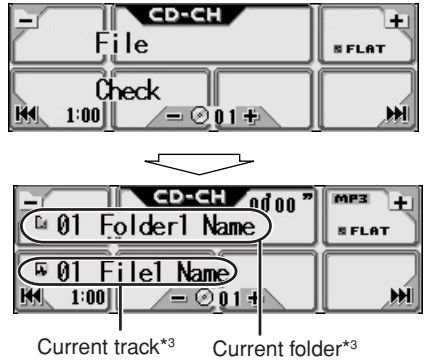
- **Display indications when the current disc is an audio CD or a CD Text:**



*1 *Appear only for CD Texts. ("No Name" appears if no name is recorded).*

*2 *Appear for CD Texts and CDs if it has been assigned. ("No Name" appears if no name is recorded or assigned).*

- **Display indications when the current disc is an MP3 disc:**



*3 *If "Tag" is set to "On" (see page 36), ID3 tag information will appear on the display if the disc has an ID3 tag.*
The album name/performer with (disc) indicator appears on the display instead of the folder name; while track title with (track) indicator appears instead of the track name.

It is recommended to use the JVC MP3-compatible CD changer with your unit.

- You can also connect the CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD changers with this unit.

Before operating your CD changer:

- Refer also to the Instructions supplied with your CD changer.
- You cannot control and play any WMA disc in the CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will appear. If this happens, remove the magazine and set the discs correctly.
- If no magazine is loaded in the CD changer, "No Magazine" appears. If this happens, insert the magazine in the CD changer.

Advanced CD Changer Operations

Locating a disc

To locate a disc

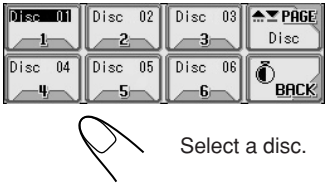
1

2

3

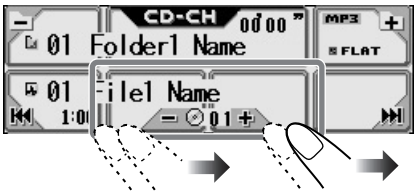
The current disc is highlighted.

4



Select a disc.

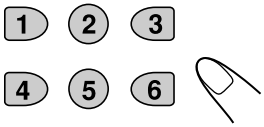
You can also select a disc....



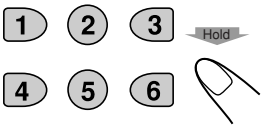
- If you hold the icon, the Disc List will appear on the display.

When using the remote controller:

- To select a disc number 1 – 6:



- To select a disc number from 7 (1) – 12 (6):



Main touch panels used in this section

CD Changer Mode screen

Works only when JVC MP3 compatible CD changer (CH-X1500) is connected.

Appears only for MP3 discs.

- To return to the previous screen, press "BACK" (if shown)

Disc List screen*1

*2

*1 The lists show the disc names actually recorded or assigned (the first 8 characters, see page 41).

*2 Press to go to the next list; hold to go back to the previous list.

Main touch panels used in this section

Folder List screen (only for MP3)*1

File (Track) List screen (only for MP3)*1

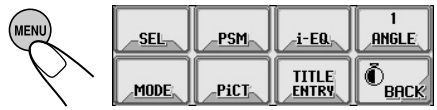
- To return to the previous screen, press “BACK” (if shown)

*1 The lists show the folder/file names actually recorded (the first 8 characters).
*2 Press to go to the next list; hold to go back to the previous list.

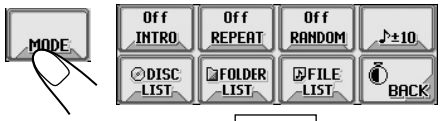
Locating a track or folder on a disc

To locate a folder on the screen (only for MP3 discs)

1



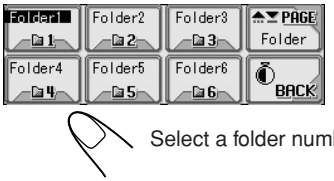
2



3

The current folder is highlighted.

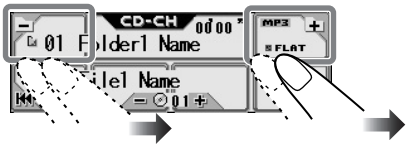
4



Select a folder number.

- If you select the currently selected folder (highlighted on the screen), the File List screen (see step ***3*** of the left column on page 47), then you can select a track to start with.

You can also select a folder....



- If you hold the icon, the Folder List will appear on the display.

To locate a track on the screen (only for MP3 discs)

1

2

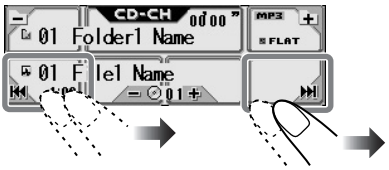
3

The current track is highlighted.

4

Select a track number.

You can also select a track....



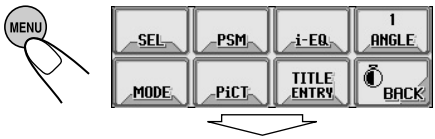
To skip 10 tracks at a time

You can quickly reach a desired track on a disc including many tracks.

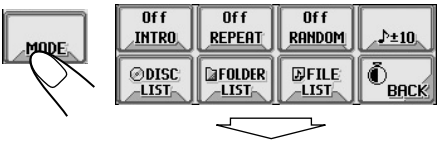
- This operation is only possible when using a JVC MP3 compatible CD changer (CH-X1500) .
- For MP3 discs, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6

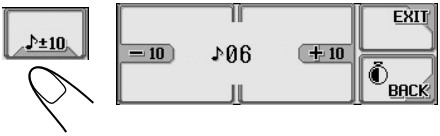
1



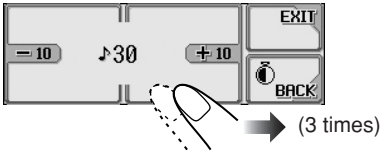
2



3



4

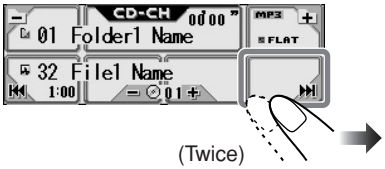


(3 times)

First time you press "+10" or "–10," the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).
Then, each time you press the button, you can skip 10 tracks.

5

6



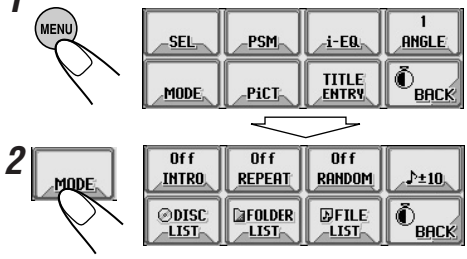
(Twice)

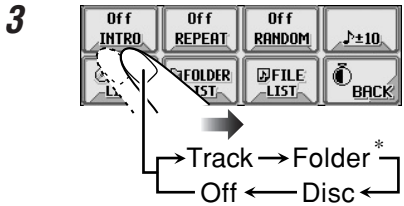
Selecting playback modes

You can use only one of the following playback modes at a time.

To play back only intros (Intro Scan)

You can play back the first 15 seconds of each track sequentially.



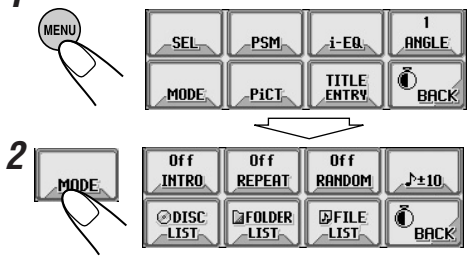


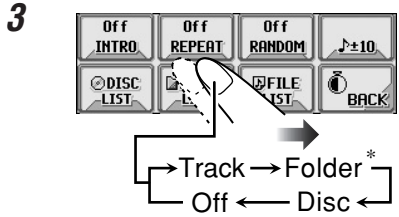
Mode	Plays the beginnings of
Track :	All tracks of the current disc. • While playing, INT lights up.
Folder* :	First tracks of all folders of the current disc. • While playing, INT lights up.
Disc :	First tracks of the all inserted discs. • While playing, INT lights up.
Off :	Cancels Intro Play.

* "Folder" can be selected for MP3 discs only.

To play back tracks repeatedly (Repeat Play)

You can repeat playback.





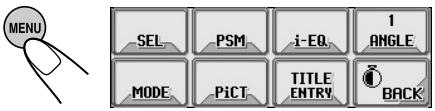
Mode	Plays repeatedly
Track :	Current track. • While playing, ♪ RPT lights up.
Folder* :	All tracks of the current folder. • While playing, RPT lights up.
Disc :	All tracks of the current disc. • While playing, RPT lights up.
Off :	Cancels Repeat Play.

* "Folder" can be selected for MP3 discs only.

To play back tracks at random (Random Play)

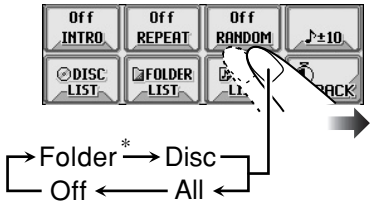
You can play back tracks at random.

1



2

3



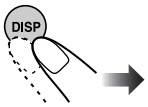
Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. • While playing, FLD RND lights up.
Disc :	All tracks of the current disc. • While playing, DISC RND lights up on.
All :	All tracks of all discs inserted in the magazine. • While playing, ALL RND lights up on.
Off :	Cancels Random Play.

* "Folder" can be selected for MP3 discs only.

4

Exit.

Changing the display pattern



CD Changer Operation screen

Clock time is enlarged.

Audio Level Meter (see page 36)

Graphic screen
(Appears only after you have download a file, see page 31)

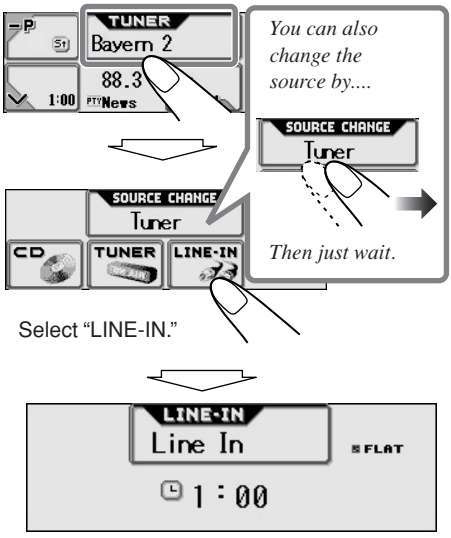
Goes back to the CD Changer Operation screen.

External Component Operations

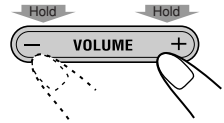
You can connect the external component to the CD changer jack on the rear using the special adapter for the component (not supplied). See the Installation/Connection Manual (separate volume).

- Before operating the external component, select the "Ext Input" setting correctly (see page 37).

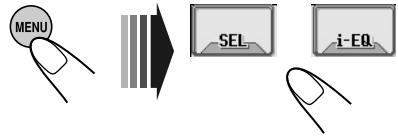
1 Select the source



2 Adjust the volume

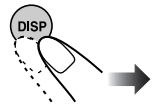


3 Adjust the sound



- For details, see pages 24 to 26.

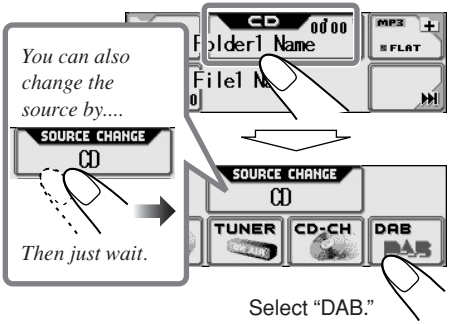
To change the display indication



DAB Tuner Operations

Listening to the DAB tuner

1 Select the DAB Tuner



2 Select the band

This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any one of them to listen to a DAB service.

3 Start searching for an ensemble

"Auto Search" begins.
When a station is received, searching stops.

To stop searching, press the same icon.

4 Select a service (either primary or secondary) to listen to

Main touch panels used in this section

DAB Tuner Operation screen

DAB Tuner Mode Menu

Preset Service List*1

*2

- To return to the previous screen, press "BACK" (if shown).

*1 The lists show the real service names (the first 8 characters).
*2 Press to change the DAB band (1→2→3→...); hold to change the DAB band (3→2→1→...).

What is DAB system?

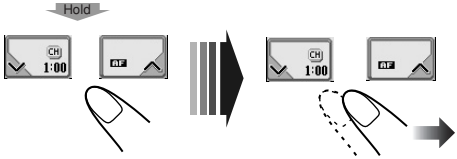
DAB can deliver CD quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble." In addition, each "service"—called "primary service"—can also be divided into its components (called "secondary service"). A typical ensemble has 6 or more programmes (services) broadcast at the same time.

It is recommended to use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with this unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

- Refer also to the Instructions supplied with your DAB tuner.

To tune in to an ensemble manually

In step ***3*** on page 51...



Activate "Manual Search."

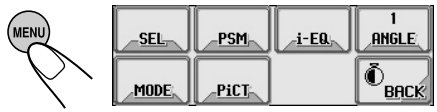
Select ensemble frequencies.

When surrounding sounds are noisy

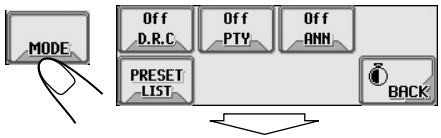
While driving, surrounding sounds will interfere with your listening. Especially the low level sounds will be hard to listen.
If this happens, you can reinforce the low level sounds to improve your listening to.

- For this purpose, some service provides Dynamic Range Control signals together with their regular programme signals.

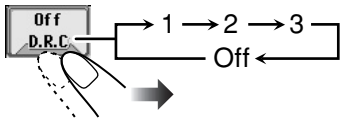
1



2

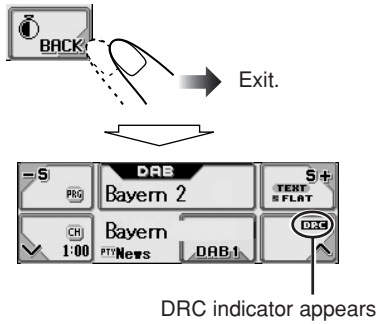


3



1/2/3:	The higher the number is, the stronger the reinforcement becomes.
Off:	Cancel the effect.

4



DRC indicator appears

- The DRC indicator will be highlighted (DRC) only when the unit received DRC signals from the tuned service.
  If it is not highlighted, this function does not work.

To search for your favorite service

You can search for any one of the PTY codes (either Dynamic or Static PTY).

- Operations are exactly the same as explained on pages 12 and 13 for FM RDS stations.
- You cannot store PTY codes separately for the DAB tuner and for the FM tuner.

To store your favorite programme (service) types, see page 13.

To search for your favorite programme (service) type, see page 12.

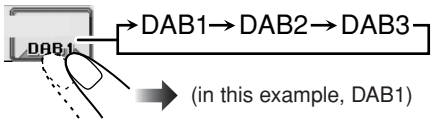
- Search will be performed on the DAB tuner only.

Storing DAB services in memory

You can preset 6 DAB services (primary services) for each band.

Ex. Storing an ensemble (primary service) into the preset number 1 of the DAB1 band.

1

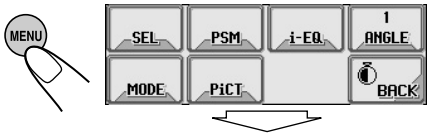


2

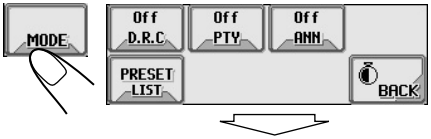
Select an ensemble (primary service).

- Holding S+ or −S on the DAB Tuner Operation screen can also display the Preset Service List (see step ***5*** that follows).

3

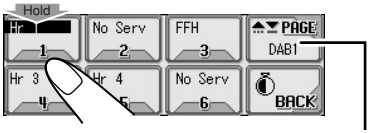


4



5

6



Select "1" in this example.

Move to the other DAB bands.*

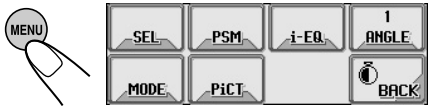
* Do not change the DAB band using this icon while presetting a service; otherwise, preset may fail.

Tuning in to a preset DAB service

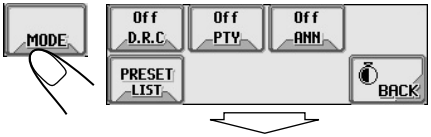
- Holding S+ or −S on the DAB Tuner Operation screen can also display the Preset Service List.

1

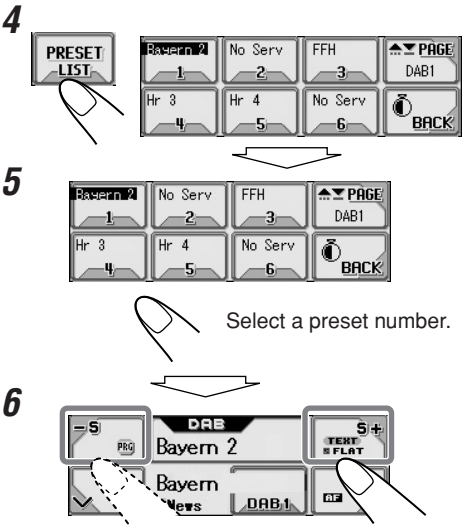
2



3



To be continued…



Using the Standby Reception

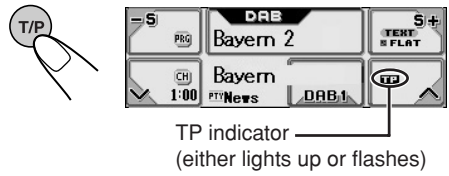
You can use three types of Standby Reception.
- Road Traffic News Standby Reception
- Announcement Standby Reception
- PTY Standby Reception

Using Road Traffic News Standby Reception

Road Traffic News Standby Reception allows the unit to switch temporarily to Road Traffic News (or Traffic Announcement) from any source except AM.

- If a Road Traffic News (or Traffic Announcement) starts broadcasting, "Traffic News" appears and the unit tunes into the service (or FM RDS station) broadcasting Road Traffic News (or Traffic Announcement). The volume changes to the preset TA volume level (see page 37).

To activate Road Traffic News Standby Reception (and TA Standby Reception):



- If the TP indicator lights up, Road Traffic News Standby Reception (or TA Standby Reception) is activated.
  - When a service which is **supporting** Road Traffic News is received. This unit now stands by for the Road Traffic News signal reception—Road Traffic News Standby Reception.
  - When a service which is **not supporting** Road Traffic News signal is received. This unit now stands by for the TA signal reception—TA Standby Reception (see page 14).

- If the TP indicator flashes, Road Traffic News Standby Reception is not yet activated.
  To activate Road Traffic News Standby Reception, tune in to another DAB service supporting these signals.
  When you tune in to such a service, the TP indicator stops flashing and remains lit. Now Road Traffic News Standby Reception is activated.

To deactivate the Road Traffic News Standby Reception (and TA Standby Reception):

TP indicator goes off.

Using Announcement Standby Reception

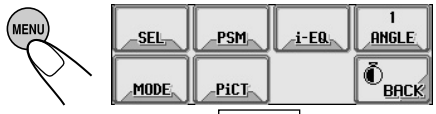
Announcement Standby Reception allows the unit to switch temporarily to your favorite service (Announcement type) from any source except AM.

To select your favorite announcement type for Announcement Standby Reception

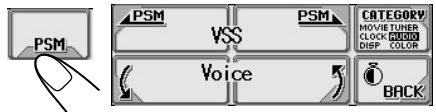
You can select your favorite announcement type for Announcement Standby Reception.

- When shipped from factory, Announcement Standby Reception has been set to work for searching for "Travel" services.

1

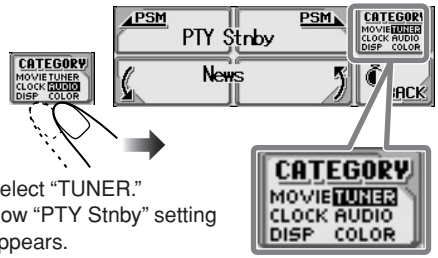


2



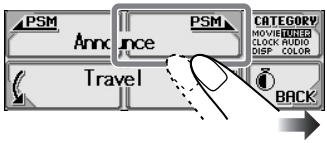
The last selected item appears.

3



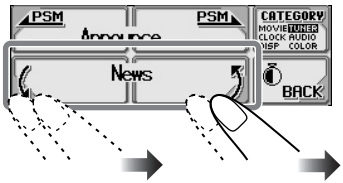
Select "TUNER."
Now "PTY Stnby" setting appears.

4



Select "Announce."

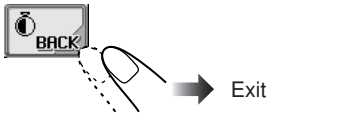
5



Select an announcement type.

Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Warning:	Warnings about earthquakes, tsunami, etc.
News:	News
Weather:	Weather information
Event:	Information about events, concerts, etc.
Special:	Special programmes expanding on current news or affairs
Rad Inf:	Radio information
Sports:	Sport events
Finance:	Reports on commerce, trading, the stock market, etc.

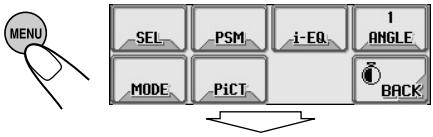
6



To activate Announcement Standby Reception

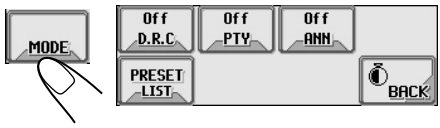
- After activating Announcement Standby Reception, you can change the source without canceling Announcement Standby Reception (except to AM).

1 **While listening to a DAB service....**

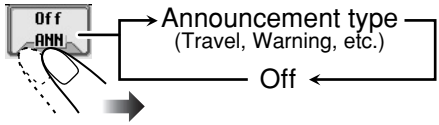


To be continued…

2

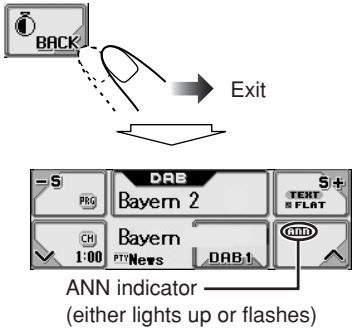


3



Announcement type:	Activates Announcement Standby Reception for the selected announcement type.
Off:	Cancels the Reception.

4



- If the ANN indicator lights up, Announcement Standby Reception is activated.

- If the ANN indicator flashes, Announcement Standby Reception is not yet activated.
  To activate Announcement Standby Reception, tune in to another service providing these signals.
  When you tune in to such a station, the ANN indicator stops flashing and remains lit. Now Announcement Standby Reception is activated.

Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from any source except AM stations

- Operations are exactly the same as explained on pages 14 and 15 for FM RDS stations.
- You cannot use PTY Standby Reception separately for the DAB tuner and for the FM tuner.

To select your favorite PTY code for PTY Standby Reception, see page 14.

To activate PTY Standby Reception, see page 15.

- You can activate and deactivate PTY Standby Reception when the source is either “FM” or “DAB.”

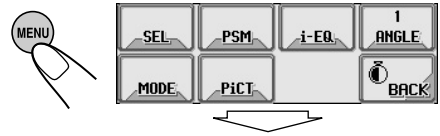
Tracing the same programme— Alternative Reception

You can keep listening to the same programme.

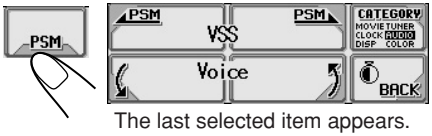
- **While receiving a DAB service:**
  When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station broadcasting the same programme.
- **While receiving an FM RDS station:**
  When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

To change the Alternative Reception setting, follow the procedure below:

1

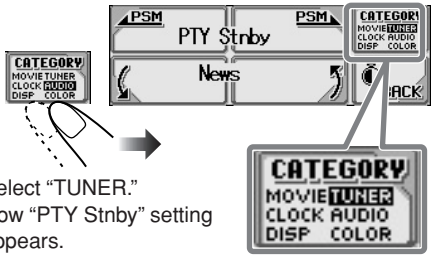


2



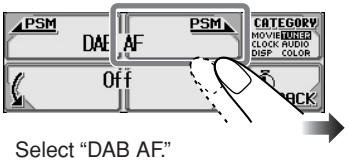
The last selected item appears.

3



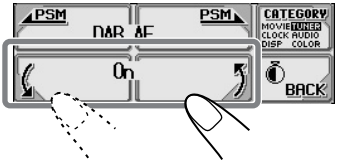
Select "TUNER."
Now "PTY Stnby" setting appears.

4



Select "DAB AF."

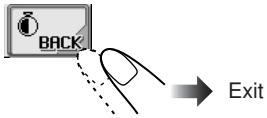
5



Change the setting.

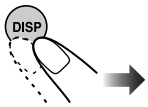
On:	Traces the programme among DAB services and FM RDS stations • The AF indicator lights up on the display.
Off:	Cancels the Reception. • The AF indicator goes off.

6



Exit

Changing the display pattern



DAB Tuner Operation screen

Preset number if any

Lights when receiving a service providing Dynamic Label Segment (DLS—DAB radio text).

DLS is shown if any.

Clock time is enlarged.

Audio Level Meter (see page 36)

Graphic screen
(Appears only after you have download a file, see page 31)

Goes back to the DAB Tuner Operation screen.

Maintenance

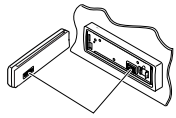
How to clean the touch panel

When removing stains or dust on the surface, turn off the power, then wipe with dry soft cloth.

- Be careful not to scratch the surface when wiping it.
- Do not use the following materials to clean the touch panel:
  - Wet cloth
  - Volatile substance such as benzine and thinner
  - Acid detergent, alkaline detergent, and detergent composed of organic substance
- When using chemically processed duster, read its precautions carefully.

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

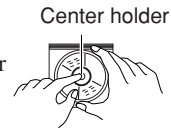
Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs



When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

More about This Receiver

Basic Operations

General

- The clock in the “BACK” icon on the screen works as the time countdown indicator. If no operation is done for a certain period of time, the current screen goes off, and the source operation screen resumes.

Selecting the source

- If a disc is not loaded, you cannot select “CD” for the playback source.
- Without connecting the CD changer, you cannot select “CD-CH (CD changer)” for the playback source.
- To select the external component for the playback source, set the “Ext Input” setting correctly (page 37).
- If a DAB tuner is not connected, you cannot select “DAB” for the playback source.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner Operations

Storing stations in memory

- When SSM is carried out for a band...
  – All stations previously stored for the band are erased and stations are stored newly.
  – Received stations are preset in the number buttons No.1 (lowest frequency) to No.6 (highest frequency). When SSM is over, the station stored in number button 1 will be automatically tuned in.
- When storing a station manually, a previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate.
- If Alternative Reception (for DAB: see page 56) is activated, Network-Tracking Reception is also activated (“AF”) automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.
- TA Standby Reception and PTY Standby Reception will be temporarily canceled while listening to an AM station.

Basic Disc Operations

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/ CD-RWs (Rewritable) in both audio and MP3/WMA formats.
- The unit cannot read or play an MP3 track without the extension code <mp3>, and a WMA track without the extension code <wma>.
- When a disc has been already loaded, selecting “CD” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- If you keep the control panel open for about 1 minute, the control panel returns to its previous position.

Playing a disc

- While playing an audio CD: If a title has been assigned to the audio CD (see page 41), it will be shown on the display.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

When playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, and for the following causes:
  – Discs are dirty or scratched.
  – Moisture condensation on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperatures or high humidity may cause malfunctions or damage to discs. For example,
  – Stickers or labels may shrink and warp a disc.
  – Stickers or labels may peel off so discs cannot be ejected.
  – Print on discs may get sticky.

  Read instructions or cautions about labels and printable discs carefully.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
  Next time you select “CD” for the playback source, disc play starts from where it has been stopped previously.

ImageLink

- ImageLink will not work in the following cases:
  – If no <jll> file is included in an MP3/WMA folder.
  – If Intro Scan is activated.
  – If the source is changed to another from "CD."
  – If more than one <jll> file are included in a folder, a file with the youngest file number is used for the graphic screen.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to prevent it from dust. (Disc will not play this time.)

Advanced Disc Operations

Locating a track or on a disc

- You can skip 10 tracks at a time only if there are more than 10 tracks in a disc or in a folder.

Sound Adjustment

General

- If you are using a two-speaker system, set the fader level to "00."
- Subwoofer out setting takes effect only when a subwoofer is connected.
- You cannot make the input level—Volume Adjustment—of the FM stations. If the source is FM, "Fix" will appear when you try to adjust it.

Storing your own sound modes

- If you do not want to store your current adjustment, but only to apply the adjustment to the current playback source, press "BACK" repeatedly to go back to the operation screen of the current source. Adjustment you made remains effective until you select a sound mode.

Graphic Displays

Downloading (or deleting) files

- You can download a file only while selecting "CD" for the playback source; on the other hand, you can delete a file while selecting any source.
- If you have already downloaded an animation for "OPENING," "ENDING," or "MOVIE," downloading a new animation deletes the previously stored animation.
- It takes a long time to download an animation.
  – About 3 to 4 seconds for a still image (one frame).
  – About 1 to 2 minutes for an animation of 30 frames.
  – About 4 minutes for an animation of 90 frames.
- If a disc inserted does not include any <jll> and <jla> files, beeps sound when you try to operate the downloading procedure.
- If you try to store a 31st image for picture screen, "Picture Full" appears and you cannot start downloading. Delete unwanted files before downloading.
- If the total frame number of an animation downloaded exceeds the following number, the frames exceeding that numbers are ignored.
  – For "OPENING" and "ENDING": 30
  – For "MOVIE": 90

General Settings—PSM

- "Auto Dimmer" may not work correctly on some vehicles, particularly on those having a control dial for dimming. In this case, change the "**Dimmer**" setting to any one other than "Auto."
- If "**LCD Type**" is set to "Auto," the display pattern will change to the "Negative" or "Positive" pattern depending on the "**Dimmer**" setting
- If you change the "**Amp Gain**" setting from "High PWR" to "Low PWR" while the volume level is set higher than "Volume 30," the unit automatically changes the volume level to "Volume 30."

Other Main Functions

Assigning titles to the sources

- When you try to assign a title to a 41st disc, "Name Full" appears and you cannot enter the text entry mode. Delete unwanted titles before assignment.
- When the CD changer is connected, you can assign titles to CDs in the CD changer. These titles can also be shown on the display if you insert the CDs in this unit.

DAB Tuner Operations

- PTY Standby Reception works for the DAB tuner only using a Dynamic PTY, but not a Static PTY.
- TA Standby Reception for FM RDS station and Road Traffic News Standby Reception for DAB cannot be set separately. The T/P button always work for the both Standby Reception modes when the DAB tuner is connected.

Characters shown on the display

In addition to the Roman alphabets (A – Z, a –z), the following characters will be used to show the various information on the display.

- You can also use the following characters to assign titles (see page 41).

Upper case

Á	À	Â	Ä	Ă
Å	Æ	Œ	Č	Ć
Ç	É	È	Ê	Ë
Ğ	Í	Ì	Î	Ï
Ñ	Ó	Ò	Ô	Ö
Õ	Ø	Ř	Ŕ	Š
Ś	Ş	Ú	Ù	Û
Ü	Ý	Ž	Ź	ß
Þ	Ŋ	Đ	Ŧ	Ł
Í	Ų	ð	space	

Lower case

á	à	â	ä	ă
å	æ	œ	č	ć
ç	é	è	ê	ë
ě	ğ	í	ì	î
ï	ñ	ň	ń	ó
ò	ô	ö	õ	ø
ő	ř	ŕ	š	ś
ş	ú	ù	û	ü
ű	ŵ	ý	ŷ	ž
ź	ÿ	þ	ŋ	đ
ŧ	ĺ	ı	ij	space

Numbers and symbols

0	1	2	3	4
5	6	7	8	9
!	”	#	$	%
&	’	(	)	*
+	,	–	.	/
:	;	<	=	>
?	@	_	`	¡
¿	£	€	α	space

About mistracking:

Mistracking may result from driving on extremely rough roads. This does not damage the unit and the disc, but will be annoying.
It is recommend to stop disc play while driving on such rough roads.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

General

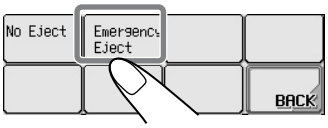
- **Main menu screen or other screens suddenly go off.**
  ⇨ There is a time limit for some operations. In this case, if no operation is done for a certain period, the current source operation screen resumes.
- **Sound is sometimes interrupted.**
  ⇨ You are driving on rough roads. Stop playback while driving on rough roads.
  ⇨ Disc is scratched.
- **Sound cannot be heard from the speakers.**
  ⇨ Connections are incorrect.
- **"Connect Error" appears on the display.**
  ⇨ The control panel is not attached correctly. Remove the control panel, wipe the connector (see page 58), then attach it again.
- **"Reset P00" — "Reset P44" appears on the display.**
  ⇨ Something is blocking the control panel movement. Press the reset button (see page 2). If it does not work, check the installation (ex. whether screws longer than specified are used or not).

FM/AM broadcast

- **SSM automatic presetting does not work.**
  ⇨ Signals are too weak. Store stations manually.
- **Static noise is generated while listening to the radio.**
  ⇨ The antenna is not connected firmly.

Disc playback—CD/CD-R/CD-RW

- **Disc cannot be played back.**
  ⇨ Disc is inserted upside down.
- **Disc cannot be recognized ("No Disc," "Loading Error," or "Eject Error" flashes).**
  ⇨ The CD player may function incorrectly. Press ⏻/I ATT and ⏏ at the same time for more than 2 seconds to display the following screen, then press "Emergency Eject."



- **Tracks on the CD-R/CD-RW cannot be skipped.**
  ⇨ CD-R/CD-RW is not finalized.
- **Disc cannot be ejected.**
  ⇨ Disc is locked. Unlock the disc (see page 21).

Disc playback—MP3/WMA

- **Disc cannot be played back.**
  ⇨ MP3/WMA tracks do not have the extension code—<mp3> or <wma> in their file names.
  ⇨ MP3/WMA tracks are not recorded in the format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, or Joliet.
- **Noise is generated.**
  ⇨ The current track is not an MP3/WMA file (although it has the extension code—<mp3> or <wma>).
- **Elapsed playing time is not correct.**
  ⇨ This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
- **"Not Support" appears and tracks skip.**
  ⇨ Tracks are not encoded in an appropriate format.
  ⇨ Copy-protected WMA tracks cannot be played back.

- **“No Files” appears for a while, then the disc ejects.**
  ⇨ The current MP3/WMA disc does not contain any MP3/WMA tracks.
- **“No Music” appears.**
  ⇨ No MP3/WMA tracks are included in the folder. Skip the folder.
  ⇨ Only <jll> and/or <jla> files are recorded on the disc.
- **Correct characters are not displayed (e.g. album name).**
  ⇨ This unit can only display a limited number of special characters (see the tables on page 62).

Graphics

- **Download does not seem to finish.**
  ⇨ If you are trying to download an animation of many frames, it takes a quite long time (see page 61).
- **Animation does not move.**
  ⇨ Temperature in the car compartment is very low—LowTEMP appears. Wait until the operating temperature resumes—until LowTEMP goes off.
- **The entire animation has not been downloaded.**
  ⇨ “OPENING” and “ENDING” can only memorize 30 frames of the animation even it includes 90 frames.

Preferred Setting Modes—PSM

- **“Movie” category settings in the PSM do not take effect.**
  ⇨ Temperature in the car compartment is very low—LowTEMP appears. Wait until the operating temperature resumes—until LowTEMP goes off.
- **“Opening” and “Ending” cannot be selected.**
  ⇨ If “KeyIn CFM” is set to “Off,” you cannot select them.
- **You cannot select an image for “UserPict.” (“---------” appears for the file name on the lower part of the display.)**
  ⇨ You can select an image only after downloading the appropriate files in memory.

External component operations

- **The external component you want is not selected for the playback source.**
  ⇨ Select the appropriate source for the “Ext Input” setting.

CD changer operations

- **“No Magazine” flashes.**
  ⇨ Magazine is not loaded in the CD changer.
- **“No Disc” flashes.**
  ⇨ No discs are in the magazine or the discs are inserted upside down.
- **“Reset 01” — “Reset 07” flashes.**
  ⇨ The built-in microcomputer in the CD changer is malfunctioning. Press the reset button of the CD changer.
- **“Reset 08” flashes.**
  ⇨ This unit is not connected to a CD changer correctly. Connect this unit and the CD changer correctly and press the reset button of the CD changer.

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:
- Front: 50 W per channel
- Rear: 50 W per channel

Continuous Power Output (RMS):
- Front: 19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
- Rear: 19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range:
- Frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz
- Level: ±10 dB

Frequency Response: 40 Hz to 20 000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance:
5.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ
Other Terminals:
- SUBWOOFER OUT
- Changer control
- Steering wheel remote input

TUNER SECTION

Frequency Range:
- FM: 87.5 MHz to 108.0 MHz
- AM: (MW) 522 kHz to 1 620 kHz
  (LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz): 65 dB
Frequency Response: 40 Hz to 15 000 Hz
Stereo Separation: 35 dB
Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 µV
Selectivity: 65 dB

[LW Tuner]

Sensitivity: 50 µV

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 Hz to 20 000 Hz
Dynamic Range: 98 dB
Signal-to-Noise Ratio: 102 dB
Wow and Flutter: Less than measurable limit
MP3 (MPEG Audio Layer 3)
Max. Bit rate: 320 Kbps
WMA (Windows Media® Audio)
Max. Bit rate: 192 Kbps

GENERAL

Power Requirement:
Operating Voltage: DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature: 0°C to +40°C
Dimensions (W × H × D):
Installation Size: 182 mm × 52 mm × 157.5 mm
Panel Size: 188 mm × 58 mm × 13 mm
Mass: 1.86 kg (excluding accessories)

Design and specifications are subject to change without notice.

- *Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.*

Having TROUBLE with operation?

Please reset your unit

Refer to page of How to reset your unit

Haben Sie PROBLEME mit dem Betrieb?

Bitte setzen Sie Ihr Gerät zurück

Siehe Seite Zurücksetzen des Geräts

Vous avez des PROBLÈMES de fonctionnement?

Réinitialisez votre appareil

Référez-vous à la page intitulée Comment réinitialiser votre appareil

Hebt u PROBLEMEN met de bediening?

Stel het apparaat terug

Zie de pagina met de paragraaf Het apparaat terugstellen

JVC

VICTOR COMPANY OF JAPAN, LIMITED

EN, GE, FR, NL

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0204MNMMDWJEIN

KD-LHX502/KD-LHX501

Installation/Connection Manual
Einbau/Anschlußanleitung
Manuel d'installation/raccordement
Handleiding voor installatie/aansluiting

LVT1136-006A
[E/EX]

0204MNMMDWJEIN
EN, GE, FR, NL

ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

DEUTSCH

Dieses Gerät ist für einen Betrieb in **elektrischen Anlagen mit 12 V Gleichstrom und (–) Erdung ausgelegt**. Verfügt Ihr Fahrzeug nicht über diese Anlage, ist ein Spannungsinverter erforderlich, der bei JVC Autoradiohändler erworben werden kann.

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 V à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

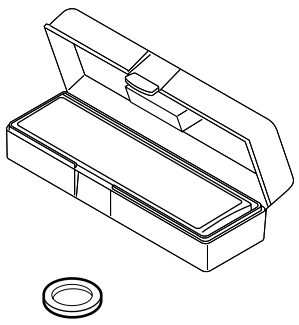
NEDERLANDS

Dit apparaat mag worden gebruikt bij elektrische systemen die werken op **12 V gelijkstroom met negatieve aarding**. Als uw auto niet is uitgerust met een dergelijk systeem, is een spanningsomzetter vereist. Dit instrument kan worden aangeschaft bij JVC car audio dealers.

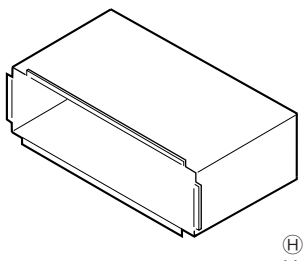
Parts list for installation and connection

The following parts are provided for this unit.
After checking them, please set them correctly.

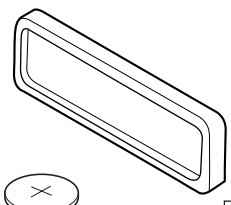
Ⓐ / Ⓑ
Hard case/Control panel
Etui/Schalttafel
Etui de transport/Panneau de commande
Behuizing/Bedieningspaneel



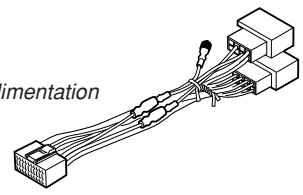
Ⓒ
Sleeve
Halterung
Manchon
Huis



Ⓓ
Trim plate
Frontrahmen
Plaque d'assemblage
Sierplaat



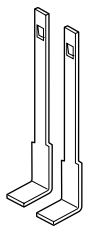
Ⓔ
Power cord
Stromkable
Cordon d'alimentation
Stroomkabel



Ⓕ
Washer (ø5)
Unterlegscheibe (ø5)
Rondelle (ø5)
Sluitring (ø5)

Ⓖ
Lock nut (M5)
Sicherungsmutter (M5)
Ecrou d'arrêt (M5)
Contra-moer (M5)

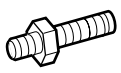
Ⓗ
Handles
Griffe
Poignées
Hendels



Ⓘ
Battery
Batterie
Pile
Batterij

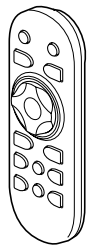
CR2025

Ⓙ
Mounting bolt (M5 x 20 mm)
Befestigungsschraube (M5 x 20 mm)
Boulon de montage (M5 x 20 mm)
Bevestigingsbout (M5 x 20 mm)

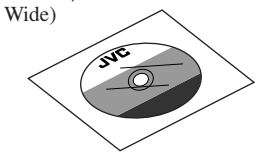


Ⓚ
Rubber cushion
Gummipuffer
Amortisseur en caoutchouc
Rubberdop

Ⓛ
Remote controller
Fernbedienung
Télécommande
Afstandsbediening



Ⓜ
CD-ROM (Image Converter: Wide)
CD-ROM (Image Converter: Wide)
CD-ROM (Image Converter: Wide)
CD-ROM (Image Converter: Wide)



INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.
- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

EINBAU (IM ARMATURENBRETT)

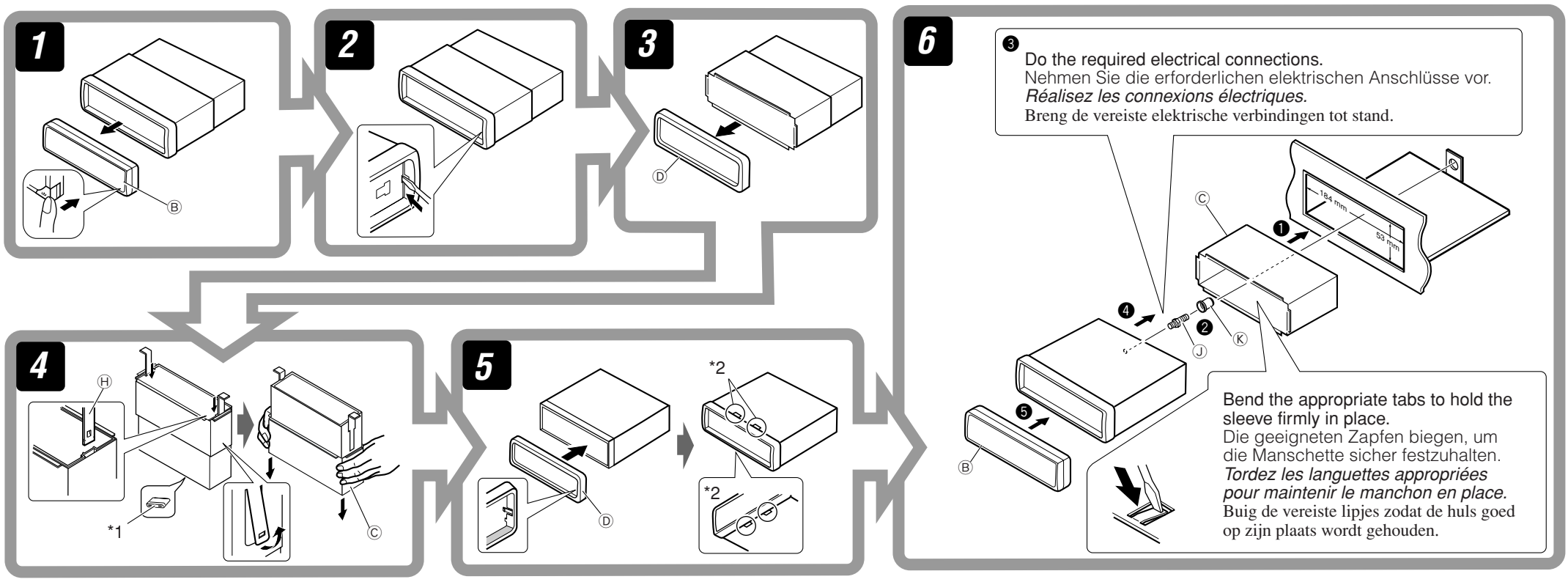
Die folgende Abbildung zeigt einen typischen Einbau. Bei irgendwelchen Fragen oder wenn Sie Informationen hinsichtlich des Einbausatzes brauchen, wenden Sie sich an ihren JVC Autoradiohändler oder ein Unternehmen das diese Einbausätze vertreibt.
- Sind Sie sich über den richtigen Einbau des Geräts nicht sicher, lassen Sie es von einem qualifizierten Techniker einbauen.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.
- *Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.*

INSTALLATIE (INBOUW IN HET DASHBOARD)

Op de volgende afbeelding kunt u zien hoe de installatie, normaal gesproken, in zijn werk gaat. Neem bij vragen of voor meer bijzonderheden over inbouwpakketten contact op met uw JVC car audio dealer of een dealer of een bedrijf dat inbouwpakketten levert.
- Als u niet zeker weet hoe u dit apparaat moet installeren, kunt u dit beter door een daartoe gekwalificeerde technicus laten doen.



*1 When you stand the unit, be careful not to damage the fuse on the rear.
*1 Beim Aufstellen des Geräts darauf achten, daß die Sicherung auf der Rückseite nicht beschädigt wird.
*1 *Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.*
*1 Wanneer u het apparaat rechtop zet, moet u erop letten dat u de zekering aan de achterkant niet beschadigt.

*2 Fit the protrusions outside the unit.
*2 Die Vorsprünge außen am Gerät anpassen.
*2 *Fixez les protubérances à l'extérieur de l'appareil.*
*2 Plaats de uitsteeksels buiten het toestel.

Removing the unit

Before removing the unit, release the rear section.

Ausbau des Geräts

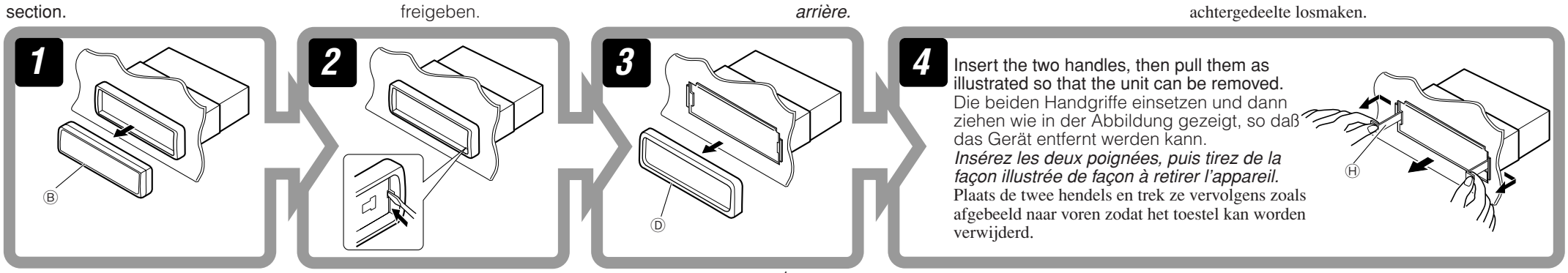
Vor dem Ausbau des Geräts den hinteren Teil freigeben.

Retrait de l'appareil

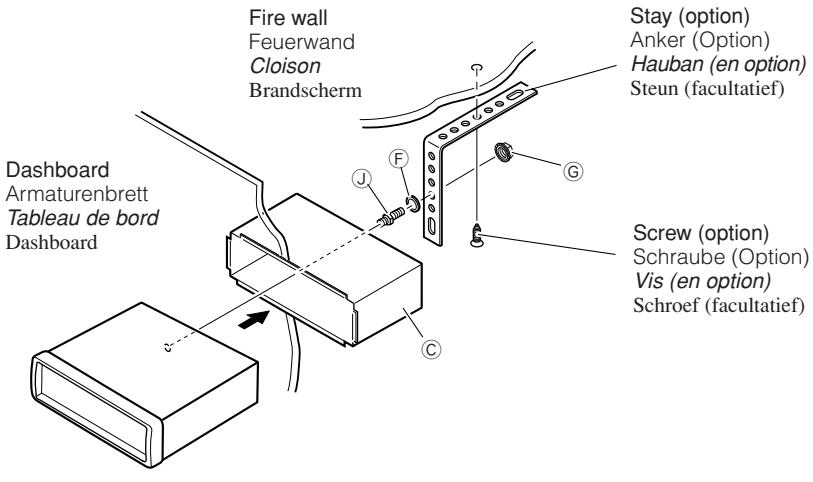
Avant de retirer l'appareil, libérer la section arrière.

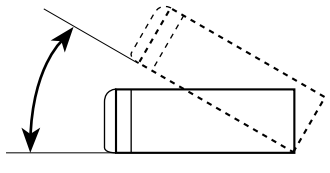
Verwijderen van het apparaat

Voordat u het apparaat verwijdert, moet u het achtergedeelte losmaken.


1
Ⓑ
2
3
Ⓓ
4
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Die beiden Handgriffe einsetzen und dann ziehen wie in der Abbildung gezeigt, so daß das Gerät entfernt werden kann.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.
Plaats de twee hendels en trek ze vervolgens zoals afgebeeld naar voren zodat het toestel kan worden verwijderd.
Ⓗ

When using the optional stay / Beim Verwenden der Anker-Option / Lors de l'utilisation du hauban en option / Wanneer u de steun gebruikt (facultatief)

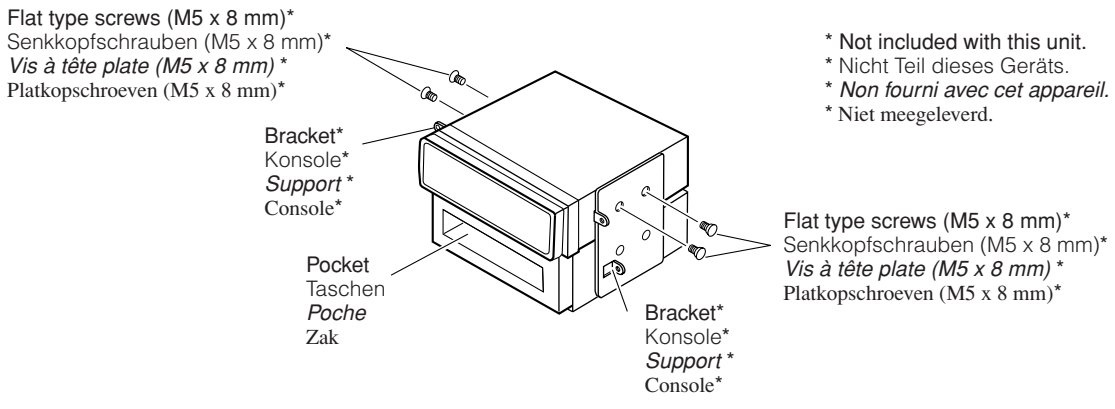




Install the unit at an angle of less than 30°.
Stellen Sie das Gerät mit einem Winkel von weniger als 30° auf.
Installez l'appareil avec un angle de moins de 30°.
Installeer het toestel met een hoek kleiner dan 30°.

When installing the unit without using the sleeve / Beim Einbau des Geräts ohne Halterung / Lors de l'installation de l'appareil scans utiliser de manchon / Wanneer u het apparaat zonder huis installeert

In a Toyota for example, first remove the car radio and install the unit in its place.
Zum Beispiel in einem Toyota zuerst das Autoradio ausbauen und dann das Gerät an seinem Platz einbauen.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.
Voorbeeld: Bij een Toyota moet u eerst de autoradio verwijderen en daarna het apparaat installeren.



* Not included with this unit.
* Nicht Teil dieses Geräts.
* *Non fourni avec cet appareil.*
* Niet meegeleverd.

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
Hinweis : Beim Anbringen des Gerät an der Konsole sicherstellen, daß 8 mm lange Schrauben verwendet werden. Werden längere Schrauben verwendet, können sie das Gerät beschädigen.
Remarque : *Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*
Opmerking : Wanneer u het apparaat aan de bevestigingsklem vastmaakt, moet u de 8 mm lange schroeven gebruiken. Als u langere schroeven gebruikt, kan het apparaat worden beschadigd.

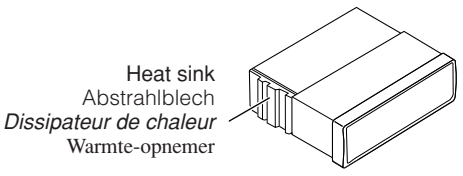
ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "Amp Gain" setting to prevent the speakers from being damaged (see page 37 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



ELEKTRISCHE ANSCHLÜSSE

Zur Vermeidung von Kurzschlüssen empfehlen wir, daß Sie den negativen Batterieanschluß abtrennen und alle elektrischen Anschlüsse herstellen, bevor das Gerät eingebaut wird.

- **Sicherstellen, daß das Gerät nach dem Einbau a Chassis des Fahrzeugs geerdet wird.**

Hinweise:

- Die Sicherung mit einer der entsprechenden Nennleistung ersetzen. Brennt die Sicherung häufig durch, wenden Sie sich an ihren JVC Autoradiohändler.
- Es wird empfohlen, Lautsprecher mit einer Maximalleistung von mehr als 50 W anzuschließen (sowohl hinten als auch vorne, mit einer Impedanz von **4 Ω bis 8 Ω**). Wenn die Maximalleistung weniger als 50 W beträgt, stellen Sie „Verstärk." anders ein, um Schäden an den Lautsprechern zu vermeiden (siehe Seite 37 der BEDIENUNGSANLEITUNG).
- Zur Vermeidung eines Kurzschlusses die Anschlußklemmen der NICHT VERWENDETEN Leitungen mit Isolierklebeband umwickeln.
- Das Abstrahlblech wird nach dem Gebrauch sehr heiß. Beim Ausbau des Geräts darauf achten, das Abstrahlblech nicht zu berühren.

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

Remarques:

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre* **4 Ω et 8 Ω***). Si la puissance maximum est inférieure à 50 W, changez "Gain Amp" pour éviter d'endommager vos enceintes (voir page 37 du MANUEL D'INSTRUCTIONS).*
- *Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.*
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

ELEKTRISCHE VERBINDINGEN

Om kortsluiting te voorkomen adviseren wij u om de minpool van de accu los te maken en alle elektrische verbindingen tot stand te brengen voordat u het apparaat in de auto installeert.

- **Aard dit toestel beslist weer op het chassis van de auto na het installeren.**

Opmerkingen:

- Vervang de zekering door een exemplaar met het aangegeven vermogen. Als de zekering vaak doorslaat, moet u uw JVC car audio dealer raadplegen.
- Sluit bij voorkeur luidsprekers met een hoger maximaal vermogen dan 50 W (zowel achter als voor, met een impedantie van **4 Ω t/m 8 Ω**) aan. Indien het maximale vermogen lager dan 50 W is, moet u "Amp Gain" in de andere stand stellen zodat de luidsprekers niet kunnen worden beschadigd (zie bladzijde 37 van de GEBRUIKSAANWIJZING).
- Om kortsluiting te voorkomen, moet u de aansluitklemmen van ONGEBRUIKTE gekleurde draden met isolatieband bedekken.
- De warmte-opnemer kan na gebruik erg heet worden. Raak de warmte-opnemer niet aan wanneer u dit apparaat van zijn plaats haalt.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

VORSICHTSMASSREGELN beim Anschließen der Stromversorgung und Lautsprecher:

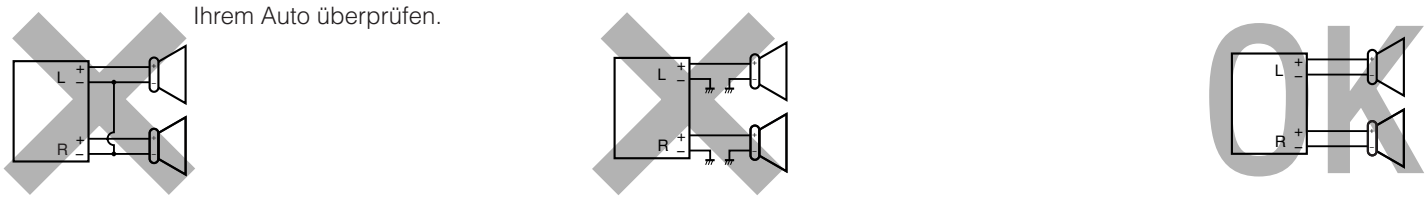
- **Die Lautsprecherleitungen des Netzkabels NICHT an der Autobatterie anschließen, da sonst das Gerät schwer beschädigt wird.**
- VOR dem Anschließen der Lautsprecherleitungen des Spannunsgversorgungskabels an die Lautsprecher, die Lautsprecherverdrahtung in Ihrem Auto überprüfen.

PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*

VOORZORGSMAATREGELEN bij het verbinden van de stroomkabeldraad met de speakers:

- **Verbind de speakerdraden van de stroomkabel NIET met de accu van de auto; als u dit wel doet, zal het apparaat ernstige schade oplopen.**
- VOORDAT u de speakerdraden van de stroomkabel met de speakers verbindt, moet u de bedrading van de speakers in uw auto controleren.



TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **Unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

FEHLERSUCHE

- **Die Sicherung brennt durch.**
* Sind die roten und schwarzen Leitungen richtig angeschlossen?
- **Stromversorgung kann nicht eingeschaltet werden.**
* Ist die gelbe Leitung angeschlossen?
- **Kein Ton aus den Lautsprechern.**
* Ist die Lautsprecherausgangsleitung kurzgeschlossen?
- **Ton verzerrt.**
* Ist die Lautsprecherausgangsleitung geerdet?
* Sind die (–) Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?
- **Störgeräusche im Klang.**
* Ist die hintere Erdungsklemme mit kürzeren und dickeren Kabeln an das Fahrzeugchassis angeschlossen?
- **Gerät wird heiß.**
* Ist die Lautsprecherausgangsleitung geerdet?
* Sind die (–) Anschlußklemmen der linken und rechten Lautsprecher zusammen geerdet?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* *Les fils rouge et noir sont-ils racordés correctement?*
- **L'appareil ne peut pas être mise sous tension.**
* *Le fil jaune est-elle raccordée?*
- **Pas de son des enceintes.**
* *Le fil de sortie d'enceinte est-il court-circuité?*
- **Le son est déformé.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*
- **Interférence avec les sons.**
* *La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?*
- **L'appareil devient chaud.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*

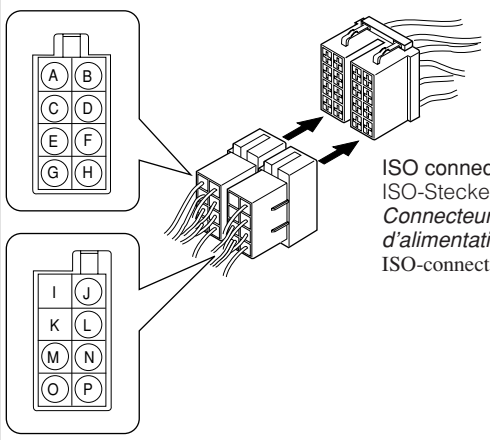
PROBLEMEN OPLOSSEN

- **De zekering slaat door.**
* Zijn de rode en de zwarte draden op de juiste manier aangesloten?
- **De stroom kan niet worden ingeschakeld.**
* Is de gele draad aangesloten?
- **Er komt geen geluid uit de speakers.**
* Is de uitgaande speakerdraad kortgesloten?
- **Het geluid wordt vervormd.**
* Is de uitgaande speakerdraad geaard?
* Zijn de "–" polen van de linker- en de rechterspeakers gemeenschappelijk geaard?
- **Geluid wordt door ruis gestoord.**
* Is de aarde-aansluiting achter met gebruik van kortere en dikkere snoeren met het chassis van de auto verbonden?
- **Het apparaat raakt verhit.**
* Is de uitgaande speakerdraad geaard?
* Zijn de "–" polen van de linker- en de rechterspeakers gemeenschappelijk geaard?

ENGLISH | DEUTSCH | FRANÇAIS | NEDERLANDS

A If your car is equipped with the ISO connector / Wenn Ihr Auto mit ISO-Steckern ausgestattet ist / Si votre voiture est équippée d'un connecteur ISO / Indien uw auto is uitgerust met de ISO-connector

- Connect the ISO connectors as illustrated.
- Die ISO-Stecker wie abgebildet anschließen.
- *Connectez les connecteurs ISO comme montré sur l'illustration.*
- Sluit de ISO-connectoren aan zoals op het voorbeeld is aangegeven.



From the car body
Von der Karosserie
De la carrosserie de la voiture
Vanaf de auto

ISO connector of the supplied power cord
ISO-Stecker am Stromkabel
Connecteur ISO pour le cordon d'alimentation fourni
ISO-connector van het meegeleverde snoer

View from the lead side
Ansicht von der Leitungsseite
Vue à partir du côté des fils
Aanzicht vanaf het snoer

For some VW/Audi or Opel (Vauxhall) automobile / Für manche VW/Audi oder Opel (Vauxhall) Fahrzeuge / Pour certaine voiture VW/Audi ou Opel (Vauxhall) / Voor bepaalde modellen VW/Audi of Opel (Vauxhall) geldt

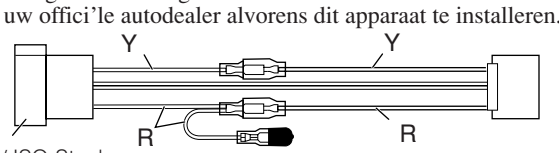
You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.

Sie müssen evtl. die Verdrahtung des mitgelieferten Stromkabels wie abgebildet ändern.
- Wenden Sie sich an Ihre Vertragswerkstatt, bevor Sie das Gerät einbauen.

Vous aurrez peut-être besoin de modifier le câblage du cordon d'alimentation fourni comme montré sur l'illustration.
- *Contactez votre revendeur automobile autorisé avant d'installer l'appareil.*

Wellicht moet u de bedrading van het meegeleverde snoer als in het voorbeeld aanpassen.
- Neem contact op met uw offici'le autodealer alvorens dit apparaat te installeren.

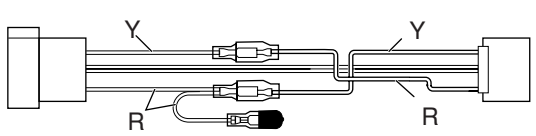
Original wiring
Originalverdrahtung
Câblage original
Originele bedrading



ISO connector / ISO-Stecker
Connecteur ISO / ISO-connector

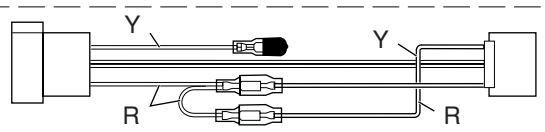
R: Red / Rot / *Rouge* / Rood
Y: Yellow / Gelb / *Jaune* / Geel

Modified wiring 1
Geänderte Verdrahtung 1
Câblage modifié 1
Aangepaste bedrading 1



Use modified wiring 2 if the unit does not turn on.
Geänderte Verdrahtung 2 verwenden, wenn das Gerät so nicht an geht.
Utilisez le câblage modifié 2 si l'appareil ne se met pas sous tension.
Pas de bedrading 2 aan indien het apparaat niet reageert bij inschakelen.

Modified wiring 2
Geänderte Verdrahtung 2
Câblage modifié 2
Aangepaste bedrading 2



B Connections without using the ISO connectors / Anschlüsse ohne ISO-Stecker / Connexions sans l'utilisation des connecteurs ISO / Verbindingen zonder ISO-connectoren

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in color.

1. Cut the ISO connector.
2. Connect the colored leads of the power cord in the order specified in the illustration below.
3. Connect the aerial cord.
4. Finally connect the wiring harness to the unit.

Vor dem Anschließen: Die Verdrahtung im Fahrzeug sorgfältig überprüfen. Falsche Anschlüsse können ernsthafte Schäden am Gerät hervorrufen.
Die Leiter des Stromkabels und die Leiter des Anschlusses im Fahrzeug können sich farblich unterscheiden.

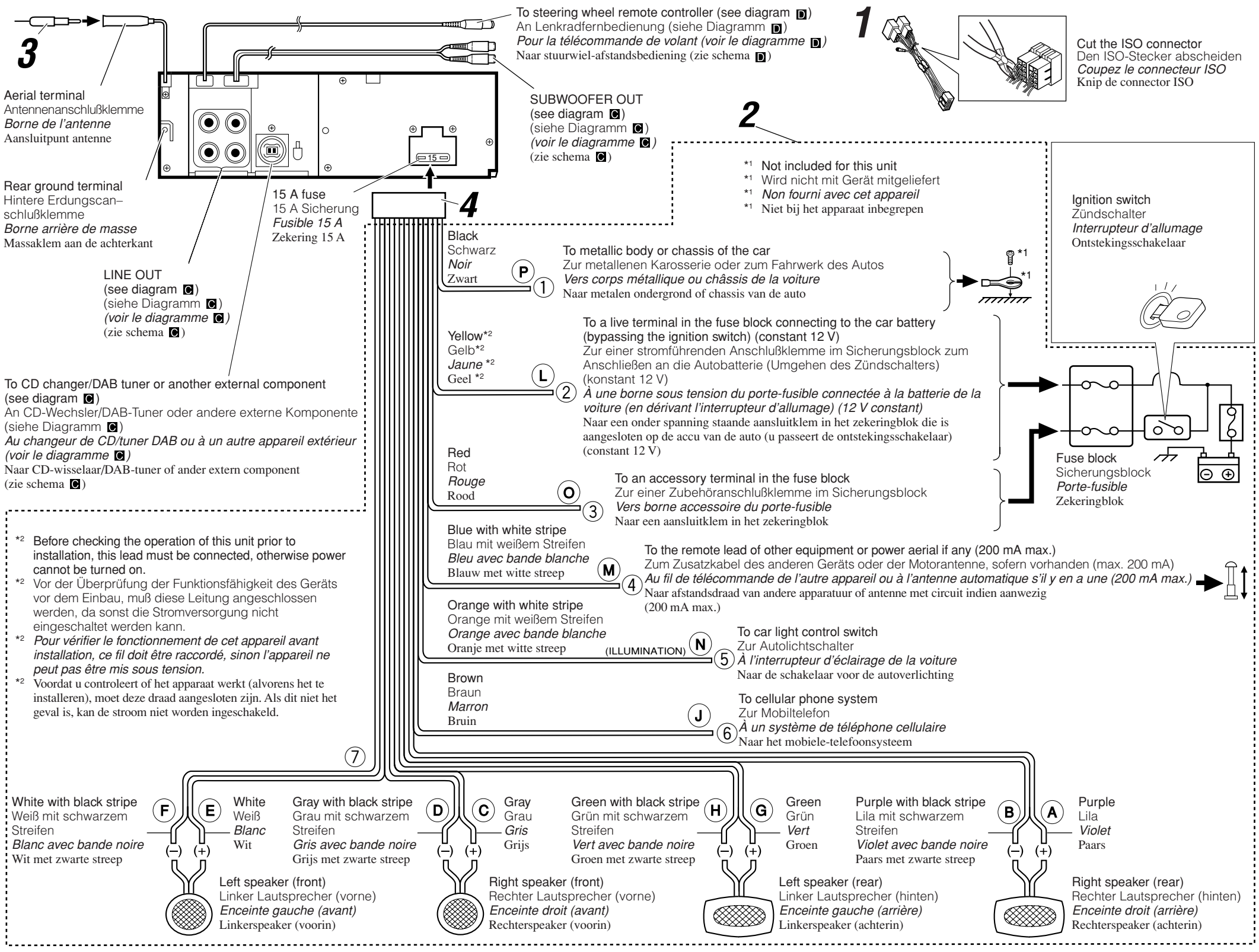
1. Den ISO-Stecker abschneiden.
2. Die farbigen Adern des Stromkabels in der Reihenfolge anschließen, wie in der Abbildung unten gezeigt.
3. Das Antennenkabel anschließen.
4. Die Kabelbäume am Gerät anschließen.

Avant de commencer la connexion: *Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*
Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

1. *Coupez le connecteur ISO.*
2. *Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.*
3. *Connectez le cordon d'antenne.*
4. *Finalement, connectez le faisceau de fils à l'appareil.*

Alvorens de verbindingen tot stand te brengen: Moet u de bedrading in de auto zorgvuldig. Het apparaat kan door verkeerde verbindingen ernstige schade oplopen.
De draden van het stroomsnoer verschillen mogelijk van kleur metde aansluitingen op het chassis van de auto.

1. Knip de ISO-connector los.
2. Verbind de gekleurde draden van het stroomsnoer in de afbeelding hieronder aangegeven volgorde.
3. Sluit de antenne aan.
4. Verbind de draadbundel daarna met het apparaat.



*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*2 Vor der Überprüfung der Funktionsfähigkeit des Geräts vor dem Einbau, muß diese Leitung angeschlossen werden, da sonst die Stromversorgung nicht eingeschaltet werden kann.
*2 *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.*
*2 Voordat u controleert of het apparaat werkt (alvorens het te installeren), moet deze draad aangesloten zijn. Als dit niet het geval is, kan de stroom niet worden ingeschakeld.

C Connections Adding Other Equipment / Anschlüsse zum Hinzufügen von anderer Ausrüstung / Raccordement pour ajouter d'autres appareils / Aansluitingen voor het toevoegen van andere apparatuur

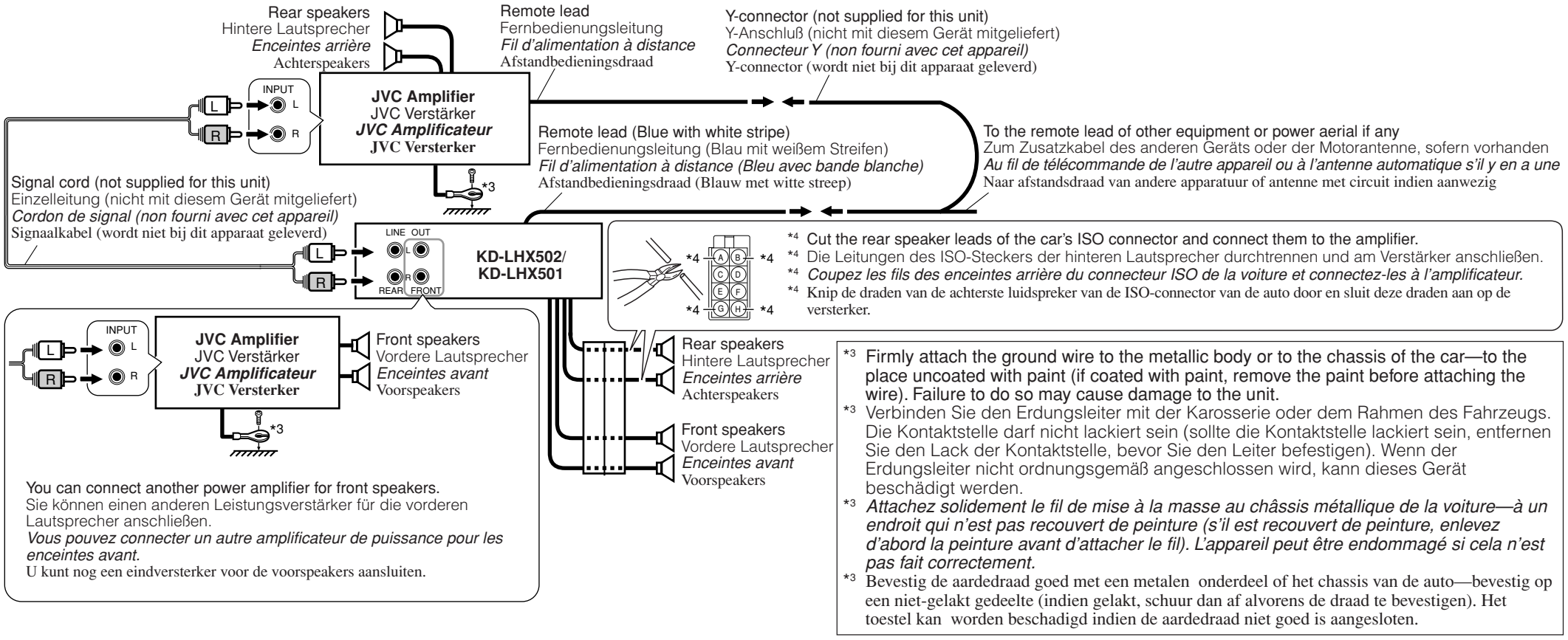
Amplifier / Verstärker / Amplificateur / Versterker

You can connect an amplifier (and other equipment) to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **For amplifier only:**
  - **– Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**
  - – The line output level of this unit is kept high to maintain the hi-fi sounds reproduced from this unit.
    When connecting an external amplifier to this unit, turn down the gain control on the external amplifier to obtain the best performance from this unit.

Sie können einen Verstärker (oder ein anderes Gerät anschließen), um Ihre Autostereoanlage zu erweitern.
- Schließen Sie das Fernbedienungskabel (blau mit weißem Streifen) an das Fernbedienungskabel des anderen Geräts an, so daß es über dieses Gerät gesteuert werden kann.
- **Nur für den Verstärker:**
  - **– Die Lautsprecher von diesem Gerät abtrennen und am Verstärker anschließen. Die Lautsprecherleitungen dieses Geräts unbenutzt lassen.**
  - – Der Ausgangspegel dieses Geräts wird auf einem hohen Wert gehalten, um den Hifi-Klang zu unterstützen, den dieses Gerät reproduziert.
    Wenn Sie einen externen Verstärker an dieses Gerät anschließen, stellen Sie den Verstärkungsregler des externen Verstärkers herunter, um die bestmögliche Leistung dieses Geräts zu erzielen.

Vous pouvez connecter un amplificateur (et autre appareil) pour améliorer votre système autoradio.
- *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
- **Pour l'amplificateur seulement:**
  - **– Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**
  - – *Le niveau de sortie de ligne de cet appareil est maintenu à un niveau élevé pour maintenir une qualité Hi-Fi pour les sons reproduits par cet appareil.*
    Lors de la connexion d'un amplificateur extérieur à cet appareil, diminuez le réglage du gain sur l'amplificateur extérieur pour obtenir les meilleures performances de cet appareil.

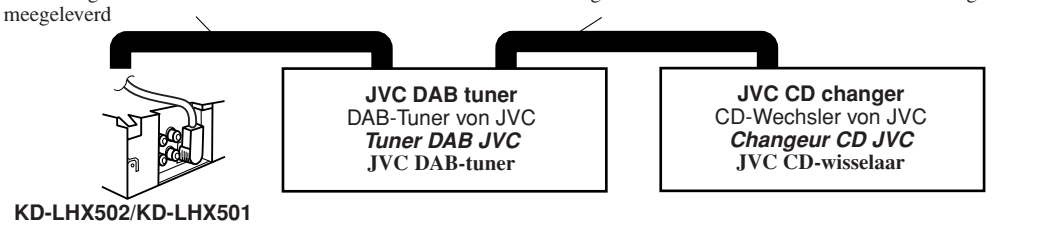
Het is mogelijk om uw autostereosysteem uit te breiden met een versterker (of andere apparatuur).
- Verbind de externe kabel (blauw met witte streep) met de externe kabel van het andere apparatuur zodat deze op afstand vanaf deze apparaat kan worden bediend.
- **Alleen voor een versterker:**
  - **– Koppel de speakers van dit apparaat los en verbind ze aan de versterker. Gebruik de speakerdraden van dit apparaat niet.**
  - – Het uitgangsniveau van het geluid is hoog om het hifi-geluid van deze eenheid te behouden. Wanneer u een extern apparaat op deze eenheid aansluit, moet u erop letten dat u de versterkingsfactor van de externe versterker laag houdt, zodat deze eenheid de beste prestaties levert.


Rear speakers
Hintere Lautsprecher
Enceintes arrière
Achterspeakers
Remote lead
Fernbedienungsleitung
Fil d'alimentation à distance
Afstandbedieningsdraad
Y-connector (not supplied for this unit)
Y-Anschluß (nicht mit diesem Gerät mitgeliefert)
Connecteur Y (non fourni avec cet appareil)
Y-connector (wordt niet bij dit apparaat geleverd)
INPUT
L
R
JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker
*3
Remote lead (Blue with white stripe)
Fernbedienungsleitung (Blau mit weißem Streifen)
Fil d'alimentation à distance (Bleu avec bande blanche)
Afstandbedieningsdraad (Blauw met witte streep)
To the remote lead of other equipment or power aerial if any
Zum Zusatzkabel des anderen Geräts oder der Motorantenne, sofern vorhanden
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une
Naar afstandsdraad van andere apparatuur of antenne met circuit indien aanwezig
Signal cord (not supplied for this unit)
Einzelleitung (nicht mit diesem Gerät mitgeliefert)
Cordon de signal (non fourni avec cet appareil)
Signaalkabel (wordt niet bij dit apparaat geleverd)
LINE OUT
REAR
FRONT
KD-LHX502/
KD-LHX501
*4
A
B
C
D
E
F
G
H
*4 Cut the rear speaker leads of the car's ISO connector and connect them to the amplifier.
*4 Die Leitungen des ISO-Steckers der hinteren Lautsprecher durchtrennen und am Verstärker anschließen.
*4 Coupez les fils des enceintes arrière du connecteur ISO de la voiture et connectez-les à l'amplificateur.
*4 Knip de draden van de achterste luidspreker van de ISO-connector van de auto door en sluit deze draden aan op de versterker.
JVC Amplifier
JVC Verstärker
JVC Amplificateur
JVC Versterker
Front speakers
Vordere Lautsprecher
Enceintes avant
Voorspeakers
Rear speakers
Hintere Lautsprecher
Enceintes arrière
Achterspeakers
Front speakers
Vordere Lautsprecher
Enceintes avant
Voorspeakers
You can connect another power amplifier for front speakers.
Sie können einen anderen Leistungsverstärker für die vorderen Lautsprecher anschließen.
Vous pouvez connecter un autre amplificateur de puissance pour les enceintes avant.
U kunt nog een eindversterker voor de voorspeakers aansluiten.

*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place uncoated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*3 Verbinden Sie den Erdungsleiter mit der Karosserie oder dem Rahmen des Fahrzeugs. Die Kontaktstelle darf nicht lackiert sein (sollte die Kontaktstelle lackiert sein, entfernen Sie den Lack der Kontaktstelle, bevor Sie den Leiter befestigen). Wenn der Erdungsleiter nicht ordnungsgemäß angeschlossen wird, kann dieses Gerät beschädigt werden.
*3 *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*
*3 Bevestig de aardedraad goed met een metalen onderdeel of het chassis van de auto—bevestig op een niet-gelakt gedeelte (indien gelakt, schuur dan af alvorens de draad te bevestigen). Het toestel kan worden beschadigd indien de aardedraad niet goed is aangesloten.

CD changer and DAB tuner / CD-Wechsler und DAB-Tuner / Changeur CD et tuner DAB / CD-wisselaar en DAB-tuner

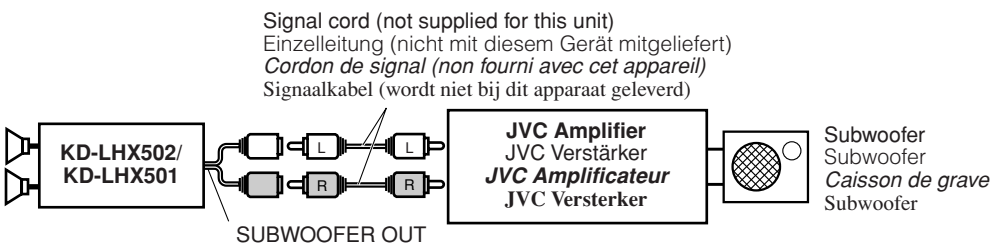
Refer also to the notes on pages 44 and 52 of the INSTRUCTIONS.
Siehe auch Hinweise auf Seiten 44 und 52 in der BEDIENUNGSANLEITUNG.
Référez-vous aussi aux remarques de la pages 44 et 52 du MANUEL D'INSTRUCTIONS.
Zie tevens de opmerkingen op bladzijde 44 en 52 van de GEBRUIKSAANWIJZING.


Connecting cord supplied for your DAB tuner
Verbindungskabel, das zum Lieferumfang des DAB-Tuners gehört
Cordon de connexion fourni avec votre tuner DAB
Verbindingskabel die met de DAB-tuner wordt meegeleverd
Connecting cord supplied for your CD changer
Verbindungskabel, das zum Lieferumfang des CD-Wechsler gehört
Cordon de connexion fourni avec votre changeur CD
Verbindingskabel die met de CD-wisselaar wordt meegeleverd
JVC DAB tuner
DAB-Tuner von JVC
Tuner DAB JVC
JVC DAB-tuner
JVC CD changer
CD-Wechsler von JVC
Changeur CD JVC
JVC CD-wisselaar
KD-LHX502/KD-LHX501

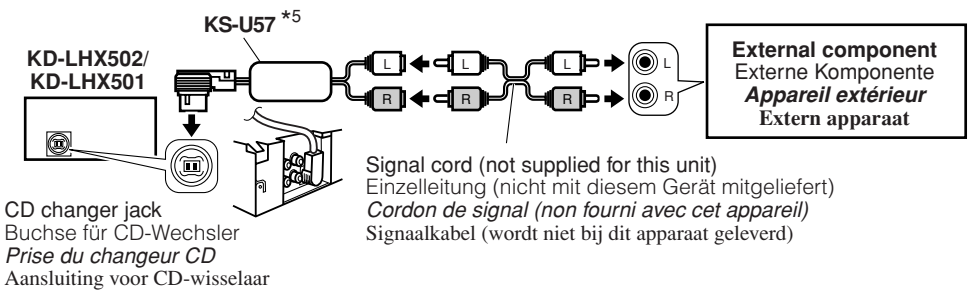
- You can connect both components in series as illustrated above.
- Es ist möglich, beide Komponenten in einer Serienschaltung entsprechend der obigen Darstellung anzuschließen.
- *Vous pouvez connecter les deux appareils en série comme montré ci-dessus.*
- Beide apparaten zijn volgens bovenstaande illustratie in serie aan te sluiten.

CAUTION / VORSICHT / PRECAUTION / LET OP!:
- Before connecting the CD changer and/or the DAB tuner, make sure that the unit is turned off.
- Bevor Sie den CD-Wechsler und/oder den DAB-Tuner anschließen, vergewissern Sie sich, daß das Gerät ausgeschaltet ist.
- *Avant de connecter le changeur CD et/ou le tuner DAB, s'assurer que l'unité est éteinte.*
- Zorg ervoor dat het apparaat is uitgeschakeld alvorens u de CD-wisselaar en/of DAB-tuner aansluit.

Subwoofer / Subwoofer / Caisson de grave / Subwoofer



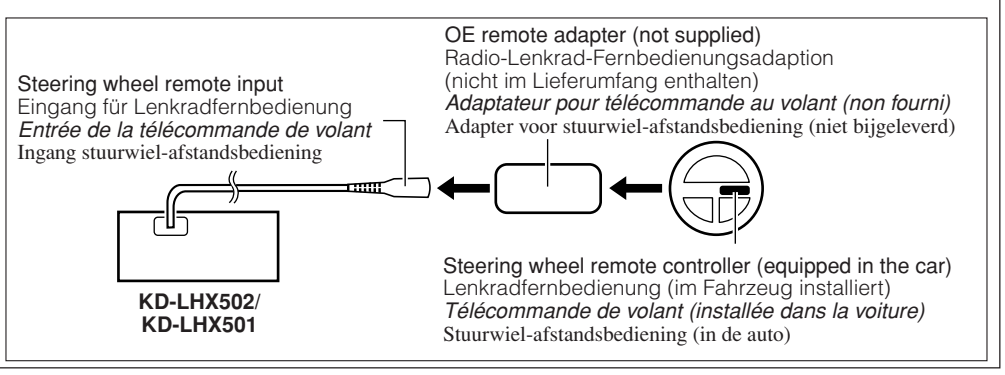
External Component / Externe Komponente / Appareil extérieur / Extern apparaat



*5 Line Input Adapter KS-U57 (not supplied with this unit)
*5 Line-Eingangsadapter KS-U57 (nicht mit diesem Gerät mitgeliefert)
*5 *Adaptateur d'entrée de ligne KS-U57 (non fourni avec cet appareil)*
*5 Line Input Adapter KS-U57 (wordt niet bij dit apparaat geleverd)

D Connecting to the steering wheel remote controller / Anschluß an die Lenkradfernbedienung / Connexion de la télécommande de volant / Verbinden met de stuurwiel-afstandsbediening

If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.
Wenn Ihr Fahrzeug mit einer Lenkradferndienung ausgestattet ist, können Sie damit diesen Receiver steuern. Hierfür ist ein für Ihr Fahrzeug passender Radio-Lenkrad-Fernbedienungsadaption von JVC (nicht im Lieferumfang enthalten) erforderlich. Für weitere Einzelheiten wenden Sie sich an Ihren JVC Autoradiohändler.
Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour le faire, un adaptateur pour télécommande au volant JVC (non fourni) correspondant à votre voiture est nécessaire. Consultez votre revendeur d'autoradio JVC pour les détails.
Indien uw auto een stuurwiel-afstandsbediening heeft, kunt u deze receiver met die afstandsbediening bedienen. Hiervoor heeft u echter een JVC adapter (niet bijgeleverd) nodig die geschikt is voor de stuurwiel-afstandsbediening van uw auto. Raadpleeg uw JVC car audio dealer voor details.


Steering wheel remote input
Eingang für Lenkradfernbedienung
Entrée de la télécommande de volant
Ingang stuurwiel-afstandsbediening
OE remote adapter (not supplied)
Radio-Lenkrad-Fernbedienungsadaption
(nicht im Lieferumfang enthalten)
Adaptateur pour télécommande au volant (non fourni)
Adapter voor stuurwiel-afstandsbediening (niet bijgeleverd)
KD-LHX502/
KD-LHX501
Steering wheel remote controller (equipped in the car)
Lenkradfernbedienung (im Fahrzeug installiert)
Télécommande de volant (installée dans la voiture)
Stuurwiel-afstandsbediening (in de auto)

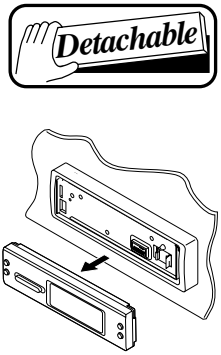
JVC

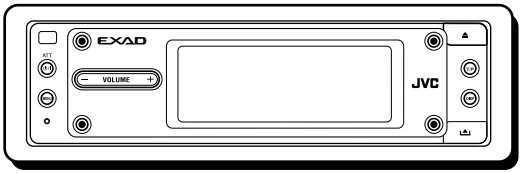
ENGLISH
ESPAÑOL
FRANÇAIS
TÜRKÇE

CD RECEIVER
RECEPTOR CON CD
RECEPTEUR CD
CD RECEİVER

KD-LHX502/KD-LHX501

EXAD





PiCT

R·D·S

COMPACT disc DIGITAL AUDIO TEXT

This unit is equipped with the display demonstration. To cancel it, see page 7.
Esta unidad está equipada con la demostración en indicación. Para cancelarla, consulte la página 7.
Cet appareil est équipé d'une démonstration des affichages. Pour l'annuler, référez-vous à la page 7.
Bu ünite, ekran tanıtım gösterisi ile donatılmıştır. İptal etmek için 7. sayfaya bakın.

For installation and connections, refer to the separate manual.
Para la instalación y las conexiones, refiérase al manual separado.
Pour l'installation et les raccordements, se référer au manuel séparé.
Montaj ve bağlantılar için diğer elkitabına bakın.

INSTRUCTIONS

MANUAL DE INSTRUCCIONES
MANUEL D'INSTRUCTIONS
TALİMATLAR

LVT1136-004B
[EU]

Thank you for purchasing a JVC product.
Please read all instructions carefully before operation, to ensure your complete understanding and to obtain the best possible performance from the unit.

IMPORTANT FOR LASER PRODUCTS

1. CLASS 1 LASER PRODUCT
2. **CAUTION:** Do not open the top cover. There are no user serviceable parts inside the unit; leave all servicing to qualified service personnel.
3. **CAUTION:** Visible and invisible laser radiation when open and interlock failed or defeated. Avoid direct exposure to beam.
4. REPRODUCTION OF LABEL: CAUTION LABEL, PLACED OUTSIDE THE UNIT.

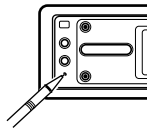
CAUTION : Visible and invisible laser radiation when open and interlock failed or defeated. AVOID DIRECT EXPOSURE TO BEAM. (e)	**ADVARSEL :** Synlig og usynlig laserstråling når maskinen er åben eller interlocken fejler. Undgå direkte eksponering til stråling. (d)	**VARNING :** Synlig och osynlig laserstrålning när den öppnas och spärren är urkopplad. Betrakta ej strålen. (s)	**VARO :** Avattaessa ja suojalukitus ohitettuna tai viallisena olet alttiina näkyvälle ja näkymättömälle lasersäteilylle. Vältä säteen kohdistumista suoraan itseesi. (f)

Warning:

If you need to operate the receiver while driving, be sure to look ahead carefully or you may be involved in a traffic accident.

How to reset your unit

Press the reset button on the control panel using a ball-point pen or a similar tool. This will reset the built-in microcomputer.



Your preset adjustments—such as preset channels or sound adjustments—will also be erased.

Cautions:

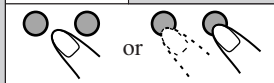
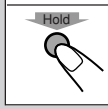
- Do not operate the touch panel using a ball-point pen or a similar tool with the sharp tip (it may damage the touch panel).
- If the temperature inside the car is below 0°C, the movement of animation and text scroll will be halted on the display to prevent the display from being blurred. LOW TEMP appears on the display. When the temperature increases, and the operating temperature is resumed, these functions will start working again.

Important!

How to read this manual:

To make the explanations as simple and easy-to-understand as possible, we have adapted the following methods:

- **Some related tips and notes are explained later in the sections "More about This Receiver" (see page 59), but not in the same section explaining the operations.** If you want to know more about the functions, or if you have a doubt about the function, go to the section and you will find the answers.
- Button and touch panel operations are explained only with the illustrations as follows:

	Press briefly.
	Press repeatedly.
	Press either one.
	Press and hold until your desired response begins.

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For safety....

- Do not raise the volume level too much, as this will block outside sounds, making driving dangerous.
- Stop the car before performing any complicated operations.

Temperature inside the car....

If you have parked the car for a long time in hot or cold weather, wait until the temperature in the car becomes normal before operating the unit.

Location of the Buttons

Control panel

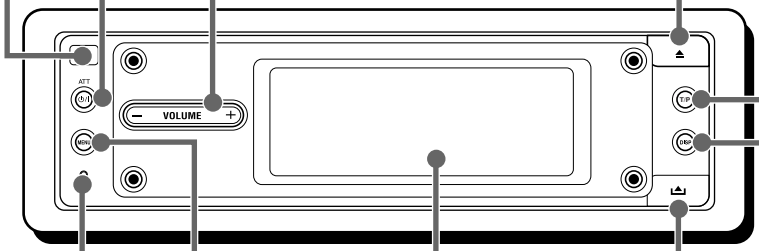
⏻/I ATT (Standby/On/Attenuator) button
Turns on and off the power, and also attenuates the sounds.

T/P button
Activates or deactivates TA Standby Reception (and Road Traffic News Standby Reception).

Remote sensor*

VOLUME+/– button
Adjust the volume level.

⏏ (eject) button
Open the control panel (and eject the disc if any).



MENU button
Show the Main Menu.

Touch Panel
Used to operate the receiver.

Reset button
Reset the built-in microcomputer.

⏏ (control panel release) button
Detach the control panel.

DISP (display) button
Change the information shown on the display.

* DO NOT expose the remote sensor on the control panel to strong light (direct sunlight or artificial lighting).

WARNINGS on the battery:

- Store the battery in a place where children cannot reach. If a child accidentally swallows the battery, consult a doctor immediately.
- Do not recharge, short, disassemble, or heat the battery or dispose of it in a fire. Doing any of these things may cause the battery to give off heat, crack, or start a fire.
- Do not leave the battery with other metallic materials. Doing this may cause the battery to give off heat, crack, or start a fire.
- When throwing away or saving the battery, wrap it in tape and insulate; otherwise, the battery may start to give off heat, crack, or start a fire.
- Do not poke the battery with tweezers or similar tools. Doing this may cause the battery to give off heat, crack, or start a fire.

Remote controller

⏻/I/ATT (Standby/On/Attenuator) button

ANGLE button
Adjust the control panel angle.

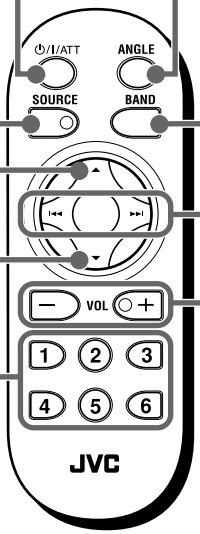
SOURCE button
Select the source.

BAND button
Select the band for FM/AM and DAB.

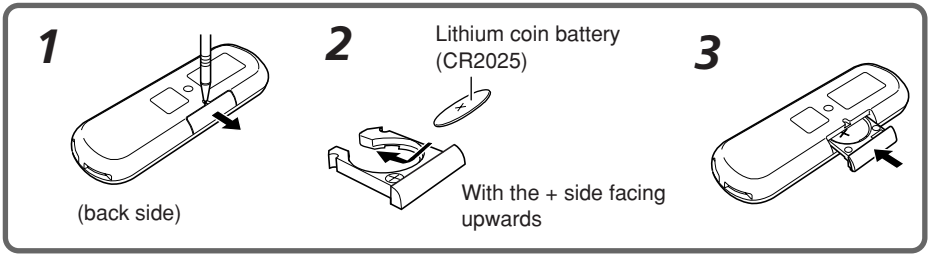
▲/▼ buttons
- Change the preset stations.
- Change the services for DAB.
- Change the folder on the MP3/WMA discs.

|◄◄/►►| buttons
- Searches for stations (or ensembles)—Auto Search, if pressed, or
  Skips frequencies after pressed and held (Manual Search).
- Change the tracks on the disc.

Number buttons
- Select the preset station (or a service) if pressed, or
  Store a station (or a service) if pressed and held.
- Select the tracks while playing CDs.
- Select the folders while playing MP3/WMA discs.
- Select the discs while operating the CD changer.



VOL (volume) +/– buttons



CAUTION:

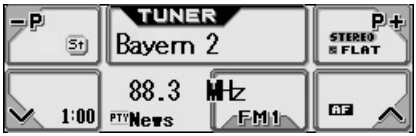
DO NOT leave the remote controller in a place (such as dashboards) exposed to direct sunlight for a long time. Otherwise, it may be damaged.

This receiver is equipped with the steering wheel remote control function. If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller.
- See the Installation/Connection Manual (separate volume) for connection to utilize this function.

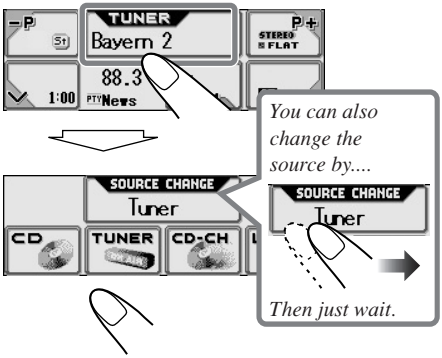
Basic Operations

1 Turn on the power

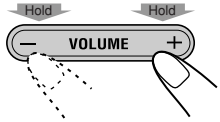
The Operation screen for last selected source is recalled.

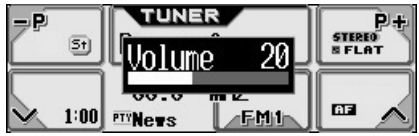


2 Select the source

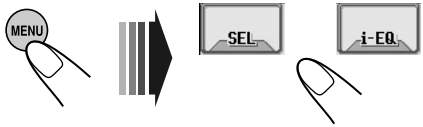


3 Adjust the volume





4 Adjust the sound

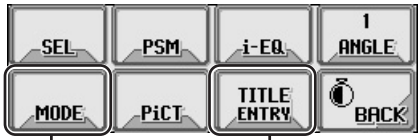


• For details, see pages 24 to 26.

When operating the touch panel
Make sure to touch the area inside the key icon boundary, but not on the boundary.

Main touch panels used in this section

Main Menu

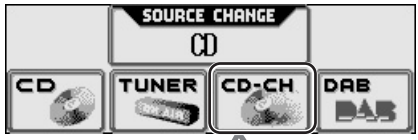


Not displayed when the source is “LINE-IN” (external component)

Not displayed when the source is “TUNER” or “DAB”

• To return to the previous screen, press “BACK” (if shown). See also page 59.

Source Selection screen



Either “CD-CH” or “LINE-IN” appears depending on the “Ext Input” setting (see page 37).

What information is shown on the touch panel

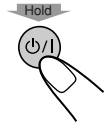
The following information are shown commonly for all sources.

- If you press DISP on the control panel, the touch panel will show the different information or different screens. (Details about this will be explained later separately for each source.)

To drop the volume in a moment (ATT):

To restore the sound, press it again.

To turn off the power:



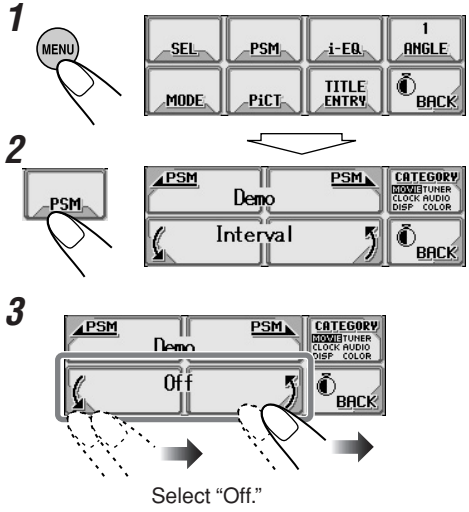
CAUTION on Volume Setting:

Discs produce very little noise compared with other sources. If the volume level is adjusted for the tuner, for example, the speakers may be damaged by the sudden increase in the output level. Therefore, lower the volume before playing a disc and adjust it as required during playback.

Canceling the display demonstration

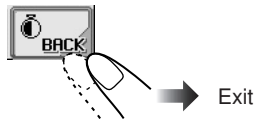
When shipped from the factory, display demonstration has been activated, and starts automatically when no operations are done for about 20 seconds.

To cancel the display demonstration, follow the procedure below:



To be continued…

4



To activate the display demonstration, repeat the same procedure and select any one other than "Off" in step ***3***.

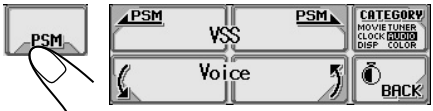
- For more details, see "To show the display demonstration" on page 35.

Setting the clock

You can also set the clock system to 24 hours or 12 hours.

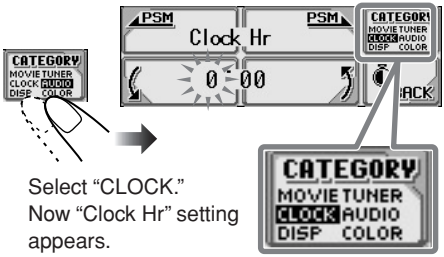
1

2



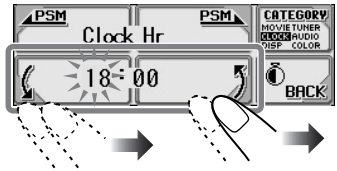
The last selected item appears.

3



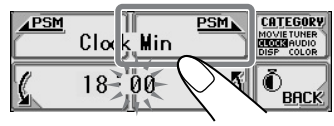
Select "CLOCK."
Now "Clock Hr" setting appears.

4



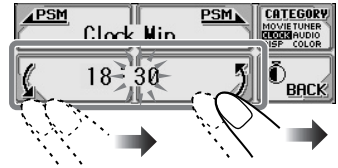
Adjust the hour.

5



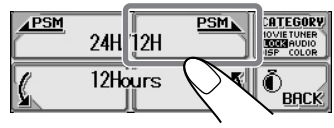
Select "Clock Min."

6



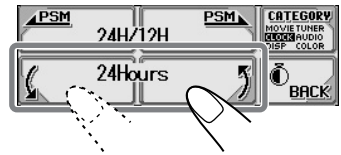
Adjust the minute.

7



Select "24H/12H."

8



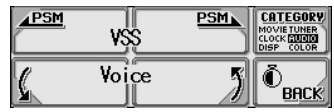
Select "24Hours" or "12Hours."

9

To check the current clock time when the unit is turned off...

To change the voice support system

You can select either "Beep" or "Voice" for the voice support system (VSS).



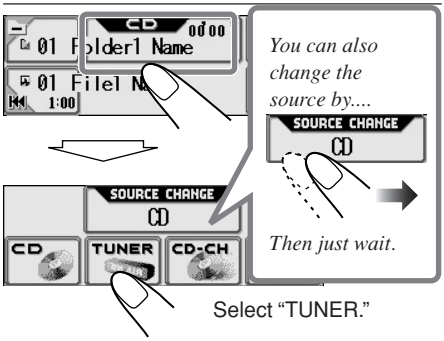
Furthermore, if you select "Voice," you can select the language—English, German, or French.

To change them, see page 37.

Radio Operations

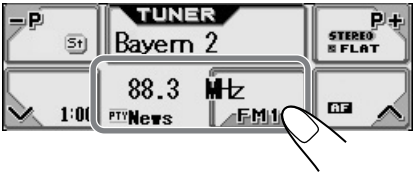
Listening to the radio

1 Select the Tuner



Select "TUNER."

2 Select the band (FM/AM)



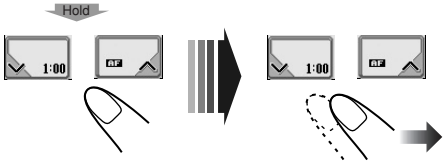
This receiver has three FM bands (FM1, FM2, FM3). You can use any one of them to listen to an FM broadcast.

3 Start searching for a station

"Auto Search" begins.
When a station is received, searching stops.

To stop searching, press the same icon.

To tune in to a station manually
In step **3** above...

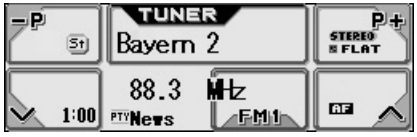


Activate "Manual Search."

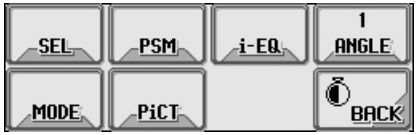
Select station frequencies.

Main touch panels used in this section

Tuner Operation screen

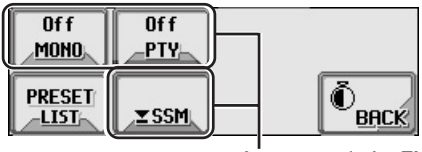


Main Menu



• To return to the previous screen, press "BACK" (if shown).

Tuner Mode Menu



Appears only for FM.

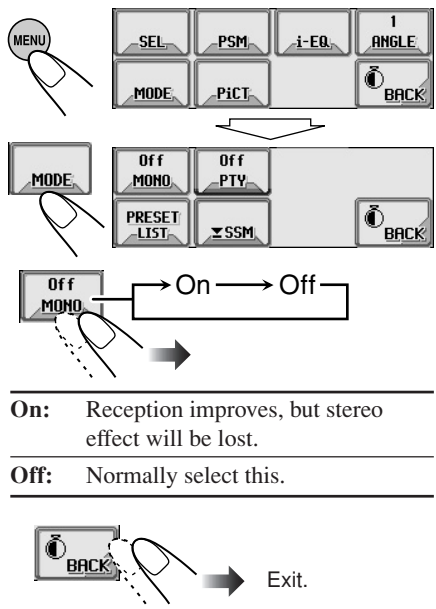
Preset Station List*1

Appears only for FM.

- Press to change the FM band (1→2→3→...).
- Hold to change the FM band (3→2→1→...).

*1 The lists show either the station frequency or PS name (the first 8 characters, see page 11).

When an FM stereo broadcast is hard to receive:



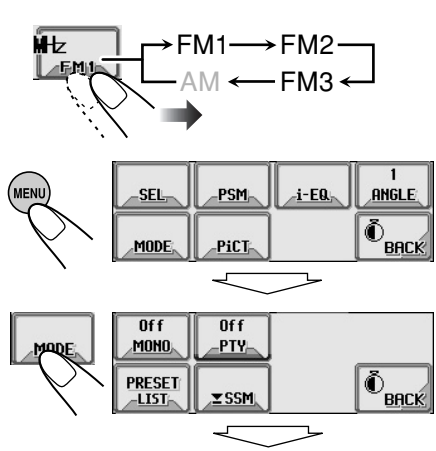
On:	Reception improves, but stereo effect will be lost.
Off:	Normally select this.

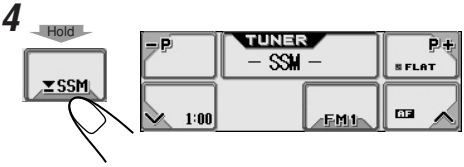
Storing stations in memory

You can preset 6 stations for each band.

FM station automatic presetting—SSM (Strong-station Sequential Memory)

• This is only for FM bands.

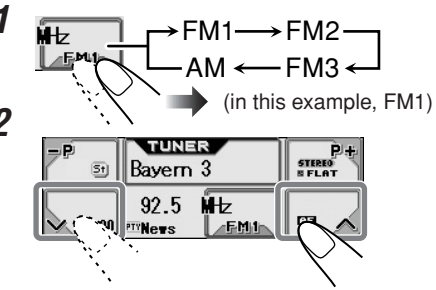




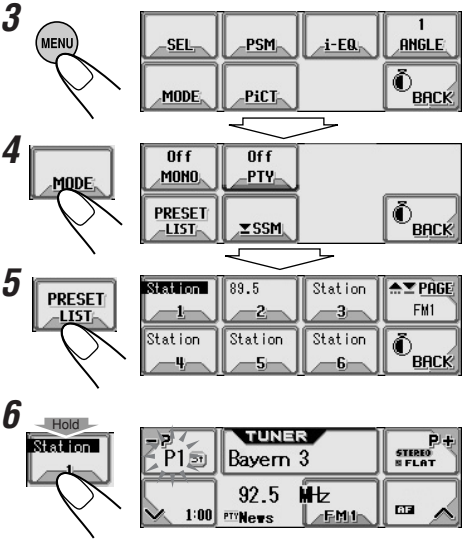
Local FM stations with the strongest signals are searched and stored automatically in the selected FM band.

Manual presetting

Ex. Storing an FM station of 92.5 MHz into the preset number 1 of the FM1 band.

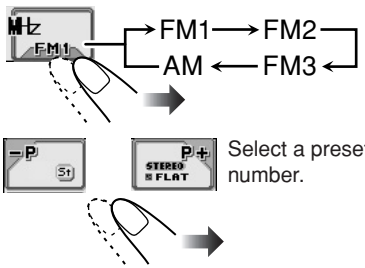


• Holding P+ or –P on the Tuner Operation screen can also display the Preset Station List (see step ***5*** below).



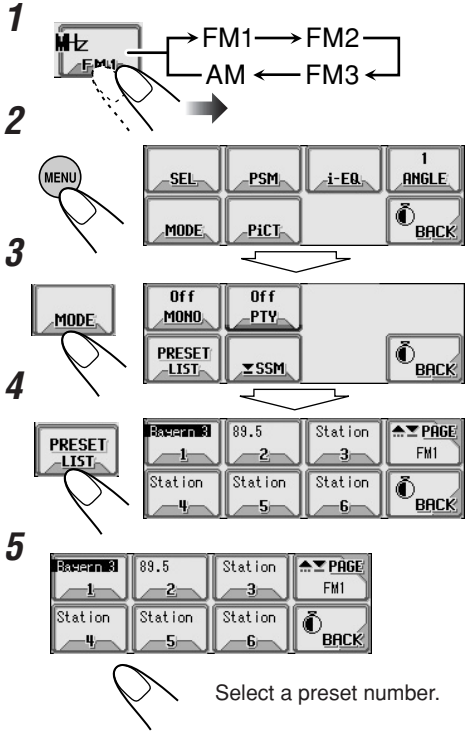
Select “1” in this example.

Tuning in to a preset station

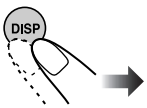


To select a preset station using the Preset Station List

- Holding P+ or −P on the Tuner Operation screen can also display the Preset Station List.



Changing the display pattern



Tuner Operation screen

Station name (PS) for FM RDS stations

Preset number if any

Lights while receiving an FM stereo broadcast

PTY code (see page 17)

Clock time is enlarged.

Audio Level Meter* (see page 36)

Graphic screen*
(Appears only after you have download a file, see page 31)

Goes back to the Tuner Operation screen.

* These screens will be temporarily canceled when you operate the unit.

FM RDS Operations

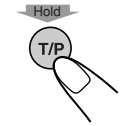
Searching for your favorite programme

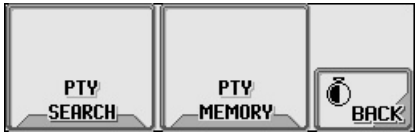
You can tune in to a station broadcasting your favorite programme by searching for a PTY code (see page 17).

- You can store your 6 favorite programme types in the Preset PTY list.

1 Show the "PTY SEARCH/PTY MEMORY" screen

While listening to an FM station....





2 Select "PTY SEARCH"

Preset PTY Code List appears (see below).

3 Select a PTY code

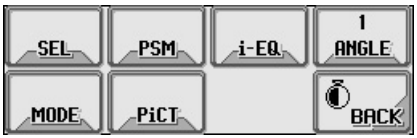
Press to go to the next list; hold to go back to the previous list.

PTY Search starts.

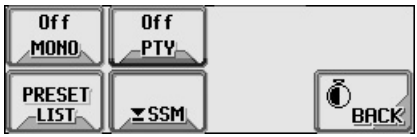
- If there is a station broadcasting a programme of the same PTY code as you selected, that station is tuned in.

Main touch panels used in this section

Main Menu



Tuner Mode Menu (for FM)



- To return to the previous screen, press "BACK" (if shown).

What you can do with RDS

RDS (Radio Data System) allows FM stations to send an additional signal along with their regular programme signals. For example, the stations send their station names, as well as information about what type of programme they broadcast, such as sports or music, etc.

By receiving the RDS data, this unit can do the following:

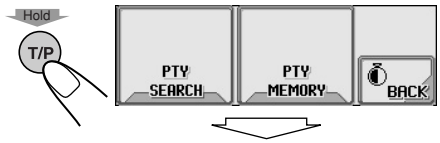
- Programme Type (PTY) Search
- Standby Reception of Traffic Announcement (TA) or your favorite programme (PTY)
- Programme Search
- Tracing the same programme automatically—Network-Tracking Reception

To store your favorite programme types in the Preset PTY Code List

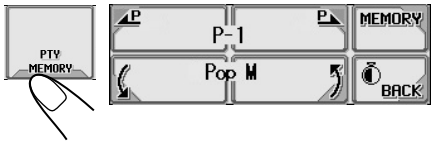
When shipped from the factory, the following 6 programme types have been stored in the Preset PTY List.

1	2	3
Pop M	Rock M	Easy M
4	5	6
Classics	Affairs	Varied

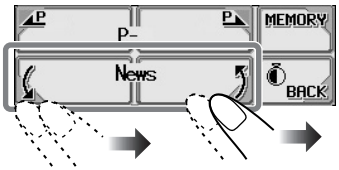
1



2

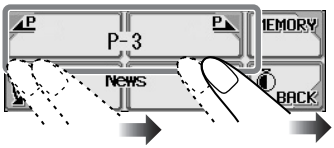


3



Select a PTY code

4



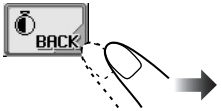
Select a preset number.

5

Selected PTY code is stored in the selected preset number.

6 **Repeat Steps *3* to *5* to store other PTY codes into other preset numbers.**

7



Exit

Using the Standby Reception

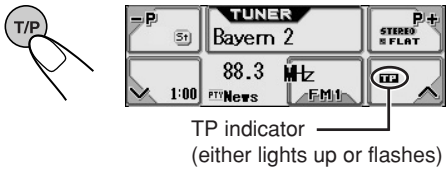
You can use two types of Standby Reception—TA Standby Reception and PTY Standby Reception.

Using TA Standby Reception

TA Standby Reception allows the unit to switch temporarily to Traffic Announcement (TA) from any source other than AM.

- If a station starts broadcasting a traffic announcement, “Traffic News” appears on the display, and this unit temporarily tunes in to the station. The volume changes to the preset TA volume level (see page 37).

To activate TA Standby Reception:



- If the TP indicator lights up, TA Standby Reception is activated.

- If the TP indicator flashes, TA Standby Reception is not yet activated. (This occurs when you are listening to an FM station without the RDS signals required for TA Standby Reception).
  To activate TA Standby Reception, tune in to another station providing these signals. When you tune in to such a station, the TP indicator stops flashing and remains lit. Now TA Standby Reception is activated.

To deactivate the TA Standby Reception:

The TP indicator goes off.

Using PTY Standby Reception

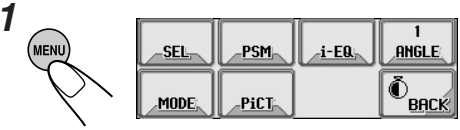
PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from any source other than AM.

To select your favorite PTY code for PTY Standby Reception

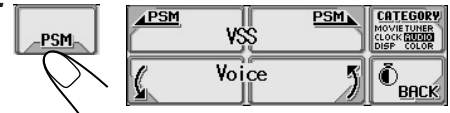
You can select your favorite programme type for PTY Standby Reception.

- When shipped from factory, PTY Standby Reception has been set to work for searching for “News” programmes.

1

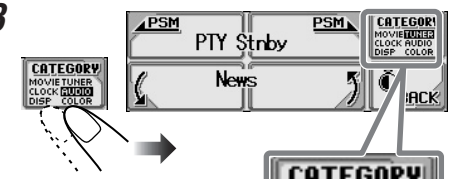


2



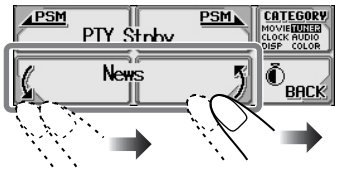
The last selected item appears.

3



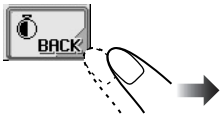
Select “TUNER.”
Now “PTY Stnby” setting appears.

4



Select a PTY code (see page 17).

5

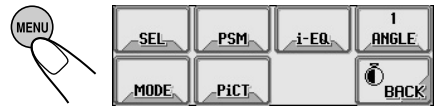


Exit

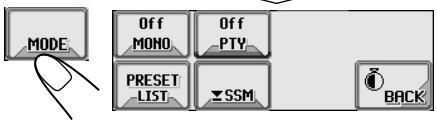
To activate PTY Standby Reception

- After activating PTY Standby Reception, you can change the source without canceling PTY Standby Reception (except to AM).

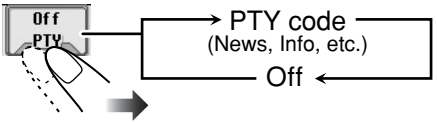
1 **While listening to an FM station....**



2

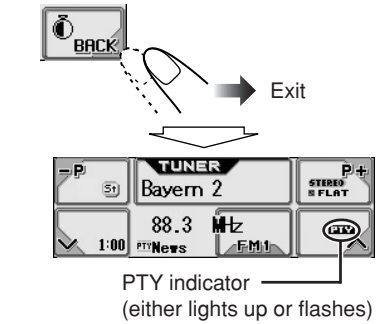


3



PTY code:	Activates PTY Standby Reception for the selected PTY code.
Off:	Cancels the Reception.

4



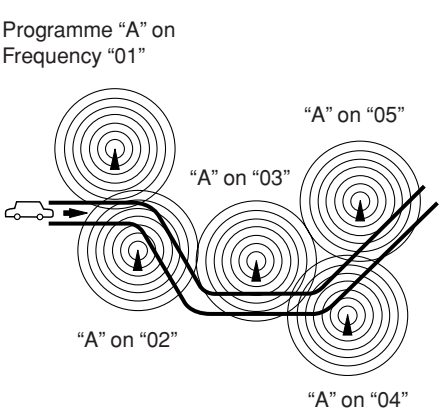
- If the PTY indicator lights up, PTY Standby Reception is activated.

- If the PTY indicator flashes, PTY Standby Reception is not yet activated.
  To activate PTY Standby Reception, tune in to another station providing these signals. When you tune in to such a station, the PTY indicator stops flashing and remains lit. Now PTY Standby Reception is activated.

Tracking the same programme— Network-Tracking Reception

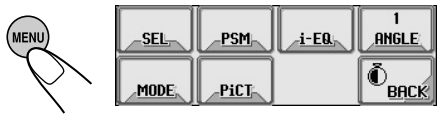
When driving in an area where FM reception is not sufficient enough, this unit automatically tunes in to **another FM RDS station of the same network**, possibly broadcasting the same programme with stronger signals.

- When shipped from the factory, Network-Tracking Reception is activated with "AF (see the next page)" selected.

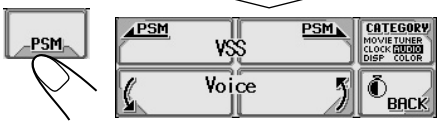


To change the Network-Tracking Reception setting, follow the procedure below:

1



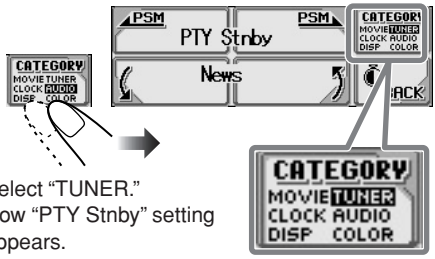
2



The last selected item appears.

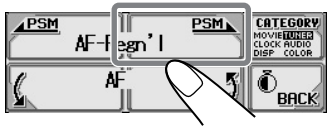
To be continued…

3



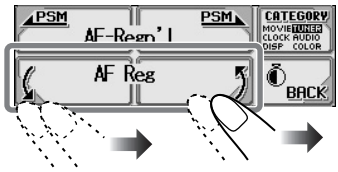
Select “TUNER.”
Now “PTY Stnby” setting appears.

4



Select “AF-Regn’l.”

5

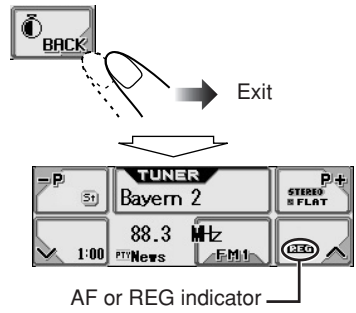


Select an option.

AF:	The unit switches to another station (the programme may differ from the one currently received.) • The AF indicator lights up.
AF Reg:	The unit switches to another station broadcasting the same programme. • The REG indicator lights up.
Off*:	Cancels the Reception. • Neither the AF indicator nor the REG indicator lights up.

* *Displayed only when “DAB AF” is set to “Off.” See page 57.*

6

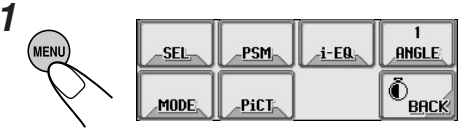


Using Programme Search

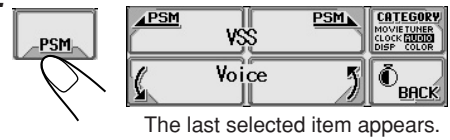
When you select a preset station, the station of the frequency stored is tuned in.
However, when the preset station is an RDS station, something different will happen with Programme Search activated.
If the signals from that preset station are not sufficient enough, this unit, using the AF (Alternative Frequency) data, tunes in to another station (which may be broadcasting the same programme as the original preset station is broadcasting).

To activate Programme Search, follow the procedure below:

1

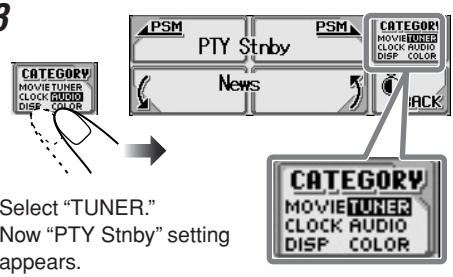


2



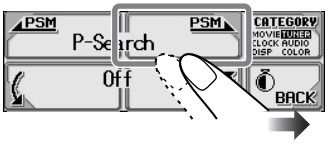
The last selected item appears.

3



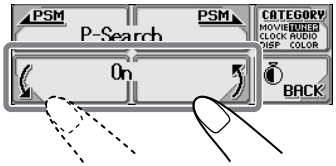
Select “TUNER.”
Now “PTY Stnby” setting appears.

4



Select “P-Search.”

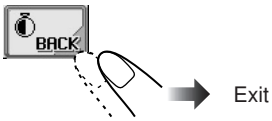
5



Select “On.”

On:	Activates Programme Search.
Off:	Cancels the Search.

6



To deactivate Programme Search, follow the procedure above and select “Off” in step ***5***.

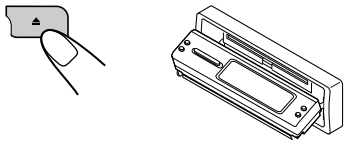
PTY codes

News:	News
Affairs:	Topical programmes expanding on current news or affairs
Info:	Programmes which impart advice on a wide variety of topics
Sport:	Sport events
Educate:	Educational programmes
Drama:	Radio plays
Culture:	Programmes on national or regional culture
Science:	Programmes on natural science and technology
Varied:	Other programmes like comedies or ceremonies
Pop M:	Pop music
Rock M:	Rock music
Easy M:	Easy-listening music
Light M:	Light music
Classics:	Classical music
Other M:	Other music
Weather:	Weather information
Finance:	Reports on commerce, trading, the stock market, etc.
Children:	Entertainment programmes for children
Social:	Programmes on social activities
Religion:	Programmes dealing with any aspect of belief or faith, or the nature of existence or ethics
Phone In:	Programmes where people can express their views either by phone or in a public forum
Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Leisure:	Programmes concerned with recreational activities such as gardening, cooking, fishing, etc.
Jazz:	Jazz music
Country:	Country music
Nation M:	Current popular music from another nation or region, in that country’s language
Oldies:	Classic pop music
Folk M:	Folk music
Document:	Programmes dealing with factual matters, presented in an investigative style

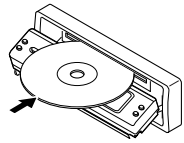
Basic Disc Operations

1 Open the control panel

The unit turns on, then...

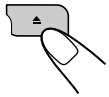


2 Insert a disc



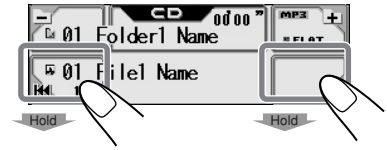
The unit draws the disc, the control panel closes then goes back to the previous position (see page 42), and playback starts automatically.

To stop play and eject the disc:

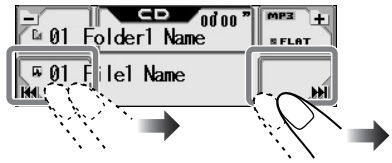


To return the control panel to its previous position, press it again.

To fast-forward or reverse the track:

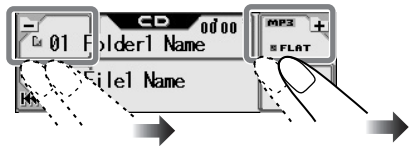


To go to the next or previous tracks:



To go to the next or previous folders:

For MP3/WMA discs only:



Main touch panels used in this section

CD/CD Text Operation screen

MP3 Operation screen

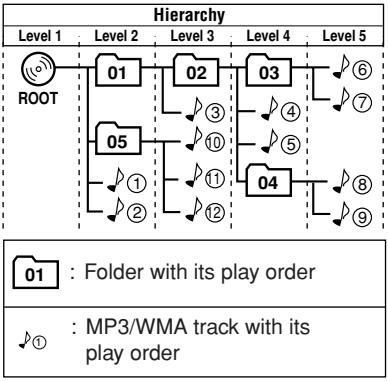
WMA Operation screen

- *When a track or folder whose number is greater than 99 is selected, the icon in front of the number (, , ,) goes off (to show its assigned 3-digit number).*

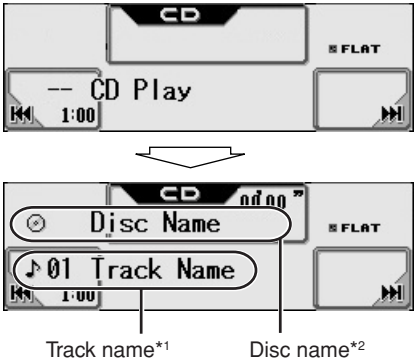
About MP3 and WMA discs

MP3 and WMA (Windows Media® Audio) "**tracks**" (words "file" and "track" are used interchangeably) are recorded in "**folders**." "Root" is similar to the root of a tree. Every track and folder can be linked to and be accessed from the root.

- When an MP3 or a WMA folder includes an image <jll> file edited by Image Converter (Wide)—supplied in the CD-ROM, you can show the image on the display while the tracks in the folder are played back. (See pages 35 and 61 for details.)



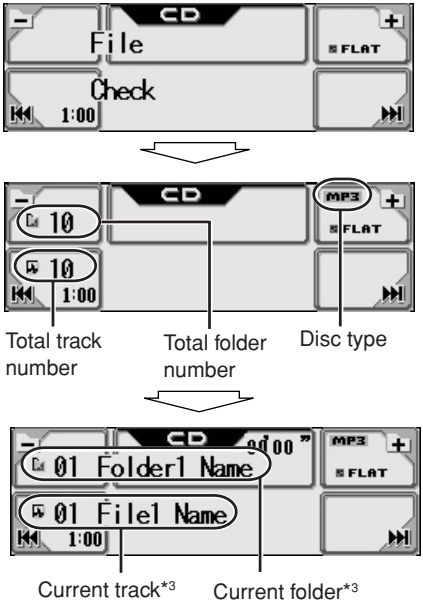
- **Display indications when inserting an audio CD or a CD Text:**



*1 *Appear only for CD Texts. ("No Name" appears if no name is recorded).*

*2 *Appear for CD Texts and CDs if it has been assigned. ("No Name" appears if no name is recorded or assigned).*

- **Display indications when inserting an MP3 or a WMA disc:**



*3 *If "Tag" is set to "On" (see page 36), ID3 tag information will appear on the display if the disc has an ID3 tag.*
The album name/performer with (disc) indicator appears on the display instead of the folder name; while track title with (track) indicator appears instead of the track name.

CAUTIONS:

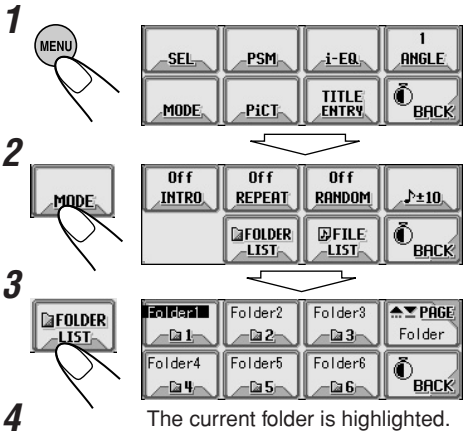
- Do not insert 8 cm discs (single CDs) into the loading slot. (Such discs cannot be ejected.)
- Do not insert any disc of unusual shape—like a heart or flower; otherwise, it will cause a malfunction.
- Do not expose discs to direct sunlight or any heat source or place them in a place subject to high temperature and humidity. Do not leave them in a car.

Advanced Disc Operations

Locating a track or folder on a disc

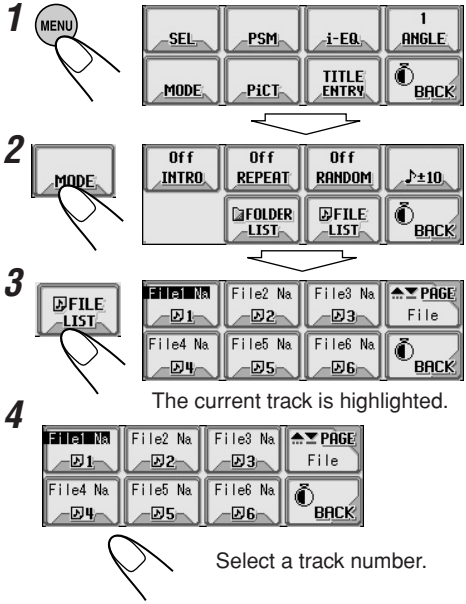
To locate a folder on the screen (only for MP3/WMA discs)

- Holding + or − on the Disc Operation screen can also display the Folder List.



- If you select the currently selected folder (highlighted on the screen), the File List screen (see step ***3*** below), then you can select a track to start with.

To locate a track on the screen (only for MP3/WMA discs)



Main touch panels used in this section

Disc Mode Menu screen

Appears only for MP3/WMA.

Skip 10 screen

- To return to the previous screen, press "BACK" (if shown).

Folder List screen (only for MP3/WMA)*1

*2

File (Track) List screen (only for MP3/WMA)*1

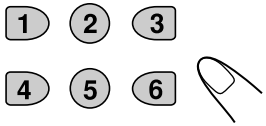
*2

*1 The lists show the folder/file names actually recorded (the first 8 characters).

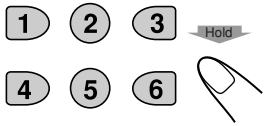
*2 Press to go to the next list; hold to go back to the previous list.

To locate a track (or folder) directly using the remote controller

- To select a track (or folder for MP3 and WMA discs) number from 1 – 6:



- To select a track (or folder for MP3 and WMA discs) number from 7 (1) – 12 (6):



To directly select the folders using the number button(s), it is required that folders be assigned 2 digit numbers at the beginning of their folder names—01, 02, 03, and so on.

To skip 10 tracks at a time

You can quickly reach a desired track on a disc including many tracks.

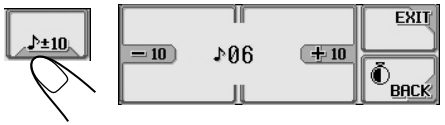
- For MP3 and WMA, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6

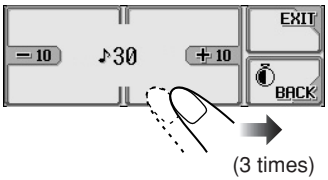
1

2

3



4

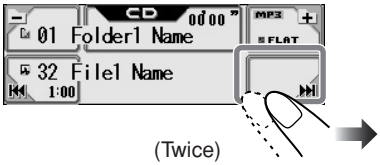


First time you press "+10" or "–10," the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).
Then, each time you press the button, you can skip 10 tracks.

- After the last track, the first track will be selected, and vice versa.

5

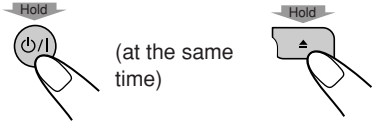
6



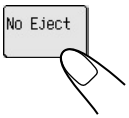
Prohibiting disc ejection

You can lock a disc in the loading slot.

1



2



"No Eject" flashes, and the disc cannot be ejected.

To cancel the prohibition, repeat the same procedure (press "Eject OK" in step ***2***). "Eject OK" flashes.

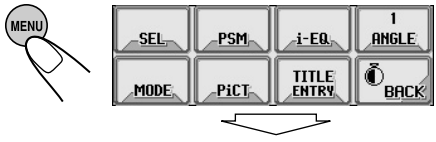
Selecting playback modes

You can use only one of the following playback modes at a time.

To play back only intros (Intro Scan)

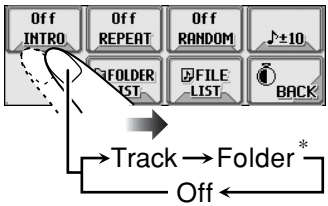
You can play back the first 15 seconds of each track sequentially.

1



2

3



Mode	Plays the beginnings of
Track :	All tracks of the disc. • While playing, INT lights up.
Folder* :	First tracks of all folders. • While playing, INT lights up.
Off :	Cancels Intro Play.

* "Folder" can be selected for MP3 and WMA discs only.

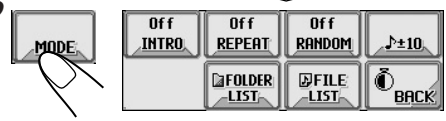
4

To play back tracks repeatedly (Repeat Play)

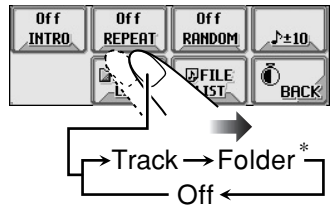
You can repeat playback.

1

2



3



Mode	Plays repeatedly
Track :	Current track. • While playing, RPT lights up.
Folder* :	All tracks of the current folder. • While playing, RPT lights up.
Off :	Cancels Repeat Play.

* "Folder" can be selected for MP3 and WMA discs only.

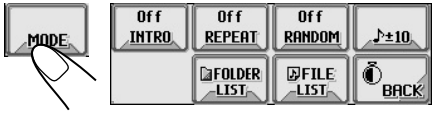
4

To play back tracks at random (Random Play)

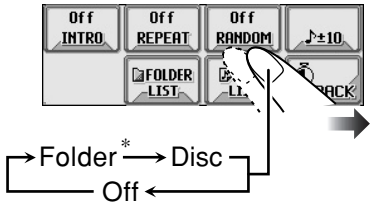
You can play back tracks at random.

1

2



3



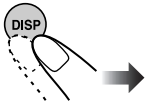
Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. • While playing, RND lights up.
Disc :	All tracks on the disc. • While playing, RND lights up.
Off :	Cancels Random Play.

* "Folder" can be selected for MP3 and WMA discs only.

4

Exit.

Changing the display pattern



Disc Operation screen

Clock time is enlarged.

Audio Level Meter (see page 36)

Graphic screen
(Appears only after you have download a file, see page 31)

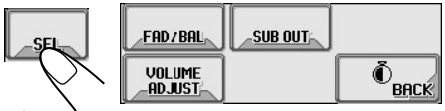
Goes back to the Disc Operation screen.

Sound Adjustments

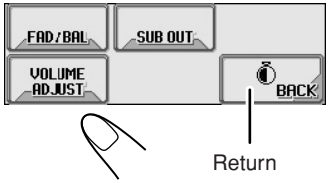
Setting the basic sound selection menu—SEL

1 Show the Main Menu

2 Show the basic sound selection menu

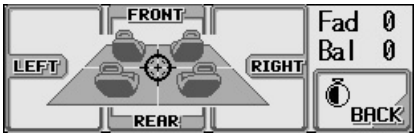


3 Select a setting item

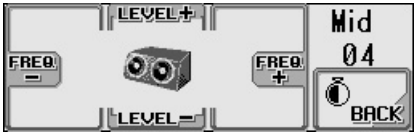


4 Adjust the item

To adjust fader and balance:

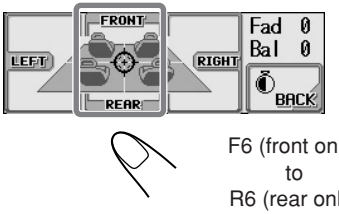


To select the cutoff frequency and adjust the subwoofer output level:

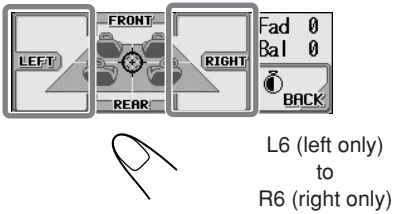


To adjust the input level of each source:

To adjust fader and balance—FAD/BAL:
Adjust fader—speaker output balance between the front and rear speakers.

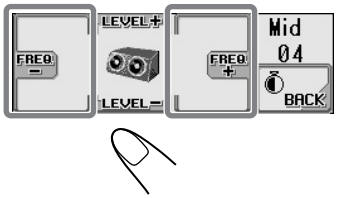


Adjust the balance—speaker output balance between the left and right speakers.



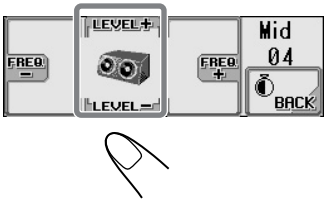
These adjustments cannot affect the Voice Support System (VSS: see page 37) output. VSS sound always comes out of all speakers connected.

To adjust subwoofer output—SUB OUT:
Select an appropriate cutoff frequency level according to the subwoofer connected.



Low:	Frequencies higher than 55 Hz are cut off to the subwoofer.
Mid:	Frequencies higher than 85 Hz are cut off to the subwoofer.
High:	Frequencies higher than 115 Hz are cut off to the subwoofer.

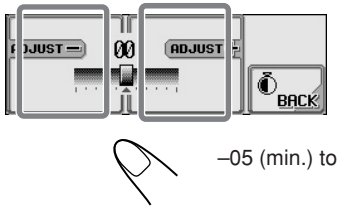
Adjust the subwoofer output level.



00 (min.)
to
08 (max.)

To adjust the input level of each source —VOLUME ADJUST:
This setting is required for each source except FM. Before making an adjustment, select an appropriate source for which you want to make an adjustment.
Once you have made an adjustment, it is memorized, and the volume level will automatically increase or decrease by adjusted level whenever you change the source.

Adjust to match the input level to the FM sound level.



–05 (min.) to +05 (max.)

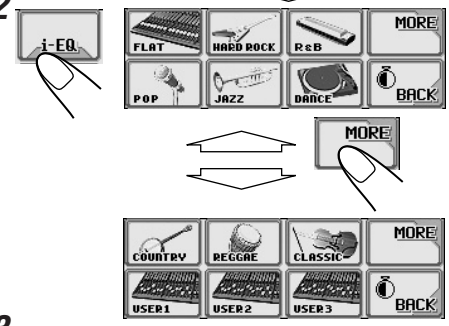
Selecting preset sound modes (i-EQ: intelligent equalizer)

You can select a sound mode suitable to the music genre.

Available sound modes:
- **Flat** (To cancel the sound mode. No sound mode is applied)
- **Hard Rock**
- **R & B**
- **Pop**
- **Jazz**
- **Dance**
- **Country**
- **Reggae**
- **Classic**
- **User 1, User 2, User 3**

1

2



3

Select a sound mode.

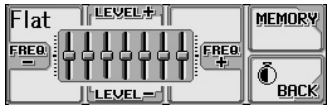
4

Exit.

Storing your own sound modes

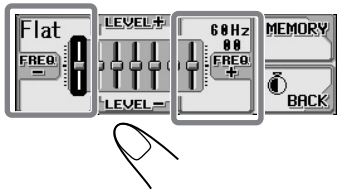
You can adjust the sound modes and store your own adjustments in memory.

1 **Repeat steps *1* to *3* on page 25 to select a sound mode you want to adjust.**



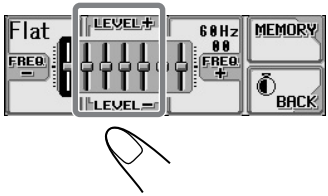
Ex. When you select “Flat”

2



Select the frequency band—60Hz, 150Hz, 400Hz, 1kHz, 2.4kHz, 6kHz, 12kHz.

3



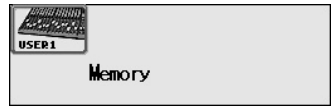
Adjust the level of the selected band within the range of –05 to +05.

4 **Repeat steps *2* and *3* to adjust the other frequency bands.**

5

6

Select one of the user modes to store your adjustment (ex. when you selecting “USER1”).



For details about the preset settings of each sound mode, see below.

Sound Mode	Preset equalizing values						
	60 Hz	150 Hz	400 Hz	1 kHz	2.4 kHz	6 kHz	12 kHz
Flat	00	00	00	00	00	00	00
Hard Rock	+03	+03	+01	00	00	+02	+01
R & B	+03	+02	+02	00	+01	+01	+03
Pop	00	+02	00	00	+01	+01	+02
Jazz	+03	+02	+01	+01	+01	+03	+02
Dance	+04	+02	00	–02	–01	+01	+01
Country	+02	+01	00	00	00	+01	+02
Reggae	+03	00	00	+01	+02	+02	+03
Classic	+02	+03	+01	00	00	+02	00
User 1	00	00	00	00	00	00	00
User 2	00	00	00	00	00	00	00
User 3	00	00	00	00	00	00	00

Graphic Displays

PiCT

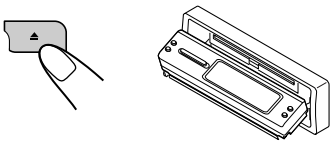
Basic procedure

Before starting the following procedure, prepare a CD-R including still images (pictures) and animations (movies).

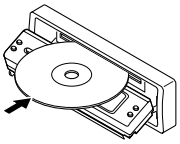
- With Image Converter (Wide) included in the supplied CD-ROM, you can create your own images and animations. (The supplied CD-ROM also includes sample images and animations.)

1 Open the control panel

The unit turns on, then...



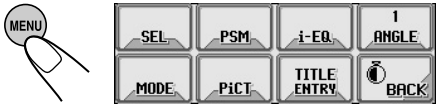
2 Insert the prepared CD-R



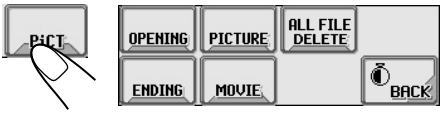
The unit draws the disc, the control panel closes, then goes back to the previous position (see page 42).

- If the disc includes playable audio files, playback starts.

3 Show the Main Menu



4 Show the Picture Menu Screen



5 Select the item

- To download/delete the file for "Opening" screen ➡ **OPENING** (see page 28)
- To download/delete the file for "Ending" screen ➡ **ENDING** (see page 28)
- To download/delete the files for graphic screen ➡ **PICTURE/MOVIE** (see pages 28 and 29)
- To delete all memorized files ➡ **ALL FILE DELETE** (see page 31)

Main touch panels used in this section

Picture Menu

• To return to the previous screen, press "BACK" (if shown).

*1 The lists show the folder/file names actually recorded (the first 8 characters).

*2 Press to go to the next list; hold to go back to the previous list.

Folder List screen*1

File List screen*1

IMPORTANT:

- Refer to Image Converter PDF files included in the "Manual" folder of the supplied CD-ROM.
- Still images (pictures) should have <**jll**>, and animations (movies) should have <**jla**> as their extension code in their file names.
- Before you download or delete the files, observe the following:
  – Do not download a file while driving.
  – Do not turn off the ignition key of the car while downloading or deleting a file.*
  – Do not detach the control panel while downloading or deleting a file.*

* If you do it, the file download or deletion will not be done correctly.

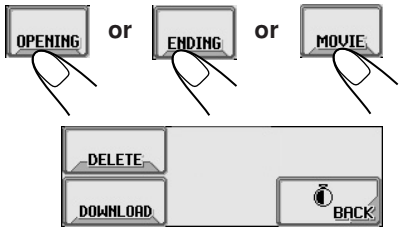
Downloading the file for "OPENING /ENDING/MOVIE"

- **OPENING**: Opening screen
  To download/delete an animation (consisting of 30 frames maximum) to be shown after the unit is turned on.
- **ENDING**: Ending screen
  To download/delete an animation (consisting of 30 frames maximum) to be shown before the unit is turned off.
- **MOVIE**: Graphic screen
  To download/delete an animation (consisting of 90 frames maximum) to be shown while playing a source.

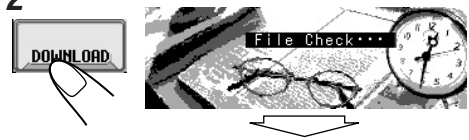
To download an animation

- It takes a long time to download an animation. For details, see page 61.
- To activate the downloaded animation, see page 31.

1 **Repeat steps *1* to *4* on page 27, then in step *5*...**



2



Only the folders including the <jla> files are shown.

3

Select a folder. (once for the currently selected; twice for the others)

4

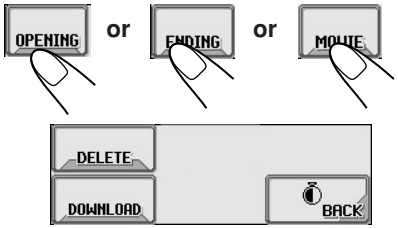
Select a file.

File name of the selected file appears.

5

To delete the stored animation:

1 **Repeat steps *1* to *4* on page 27, then in step *5*...**



2

File name of the stored file appears.

3

Downloading the files for "PICTURE"

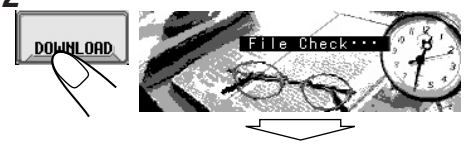
Download pictures (total of 30 still images: each one frame—see also page 61) which can be used for the graphic screen.

- To activate the downloaded animation, see page 31.

To download pictures

1 **Repeat steps *1* to *4* on page 27, then in step *5*...**

2



Only the folders including the <jll> files are shown.

3

Select a folder. (once for the currently selected; twice for the others)

4

Select a file.

File name of the selected file appears.

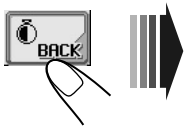
5

To be continued…

6 Download more files if you want.

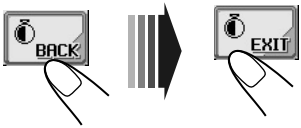
• To select a file from the same folder:

• To select a file from another folder:



Repeat steps ***3*** to ***5***.

7 After downloading all the files you want...



To delete the stored pictures:

1 Repeat steps *1* to *4* on page 27, then in step *5*...

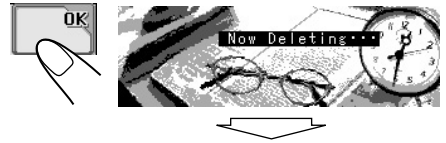
2

3

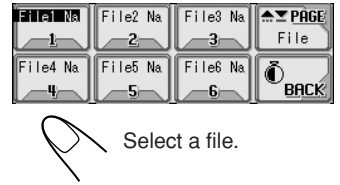
Select a file.

File name of the selected file appears.

4



5 Delete more files if you want.



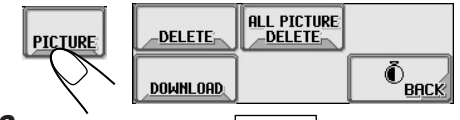
Select a file.

6 After deleting all the files you do not want...

Exit.

To delete all the stored pictures at a time:

1 Repeat steps *1* to *4* on page 27, then in step *5*...



2

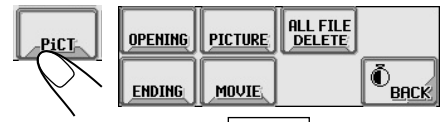
3

Deleting all files

You can easily delete all files—animations and pictures stored for "OPENING/ENDING/ MOVIE/PICTURE."

1

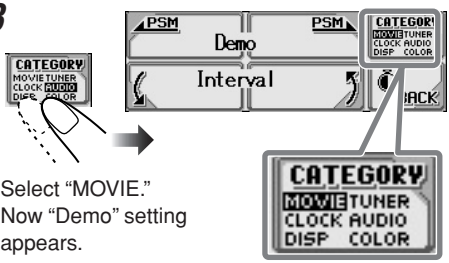
2



3

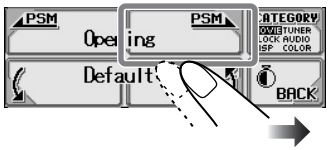
4

3



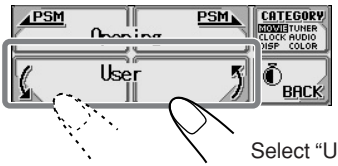
Select "MOVIE."
Now "Demo" setting appears.

4



Select "Opening" or "Ending."

5



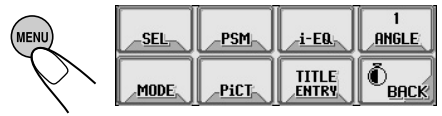
Select "User."

Default:	Factory-preset animation is used.
User:	Your own animation is used.

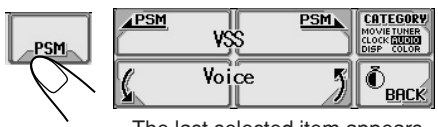
Activating the downloaded files

To activate the animations stored for opening and ending screens

1



2



The last selected item appears.

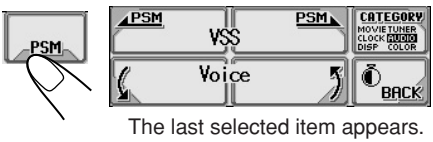
6

Exit.

To activate the graphic screen using either picture or movie

1

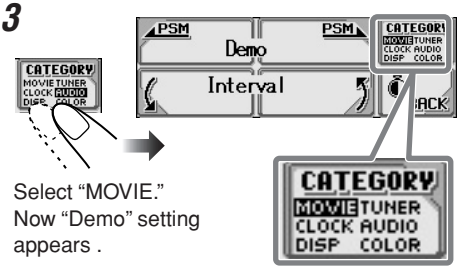
2



The last selected item appears.

To be continued…

3

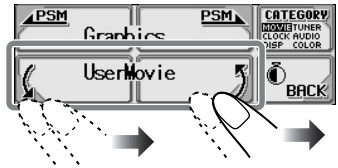


Select “MOVIE.”
Now “Demo” setting appears .

4

Select “Graphics.”

5



Select a setting you want.

UserPict.:	One of your still images stored in “PICTURE” is activated for your graphic screen. (To select an image, see the next column.)
UserMovie:	Your animation stored in “MOVIE” is activated for your graphic screen.
UserSlide:	Your still images stored in “PICTURE” are activated and shown in sequence for your graphic screen.

6

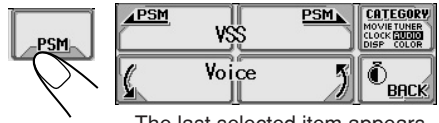
Exit.

To select a still image for “UserPict.”

- If “UserPict.” is not selected for “Graphics” you cannot select “UserPict.” in step ***4*** below.

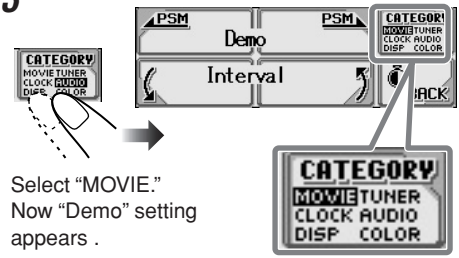
1

2



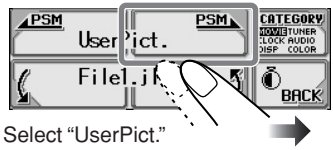
The last selected item appears.

3



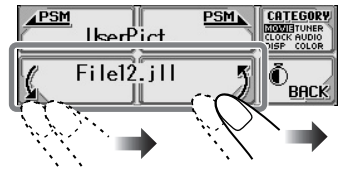
Select “MOVIE.”
Now “Demo” setting appears .

4



Select “UserPict.”

5



Select a file you want.

6

Exit.

General Settings—PSM

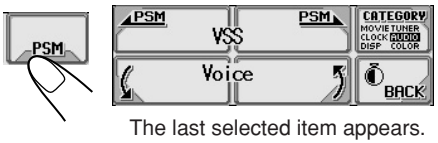
Basic procedure

You can change the Preferred Setting Mode (PSM) items listed on the table that follows.

- The PSM items are grouped into six categories—MOVIE, CLOCK, DISP (display), TUNER, AUDIO, and COLOR.

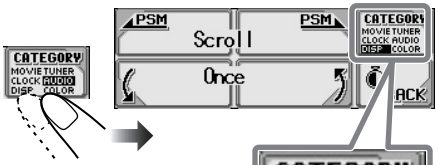
1 Show the Main Menu

2 Show the PSM setting screen



The last selected item appears.

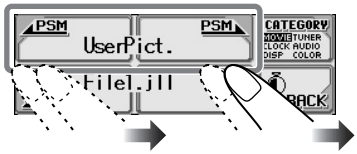
3 Select a PSM category



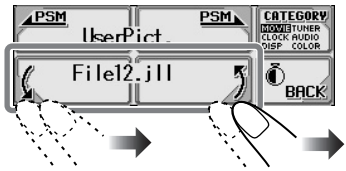
Ex. When selecting "DISP"
The first listed PSM item in the selected category appears.

*Without selecting a PSM category, you can move to a different category by simply changing the PSM items (in step **4**).*

4 Select a PSM item



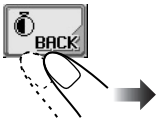
5 Change or adjust the setting



6 Change or adjust other PSM items

If necessary, repeat steps ***3*** to ***5*** to change other PSM item settings.

7 Exit



PSM items			Selectable settings		Initial	Pages
MOVIE	**Demo**	Demonstration	All Time ↔ ImageLink ↔ Off ↔ Interval		Interval	7, 35
	Graphics	Graphics	UserPict. ↔ UserMovie ↔ UserSlide		UserPict.	32
	KeyIn CFM	Key-in confirmation	Off	On	On	35
	Opening *1	Opening screen	Default	User	Default	31
	Ending *1	Ending screen	Default	User	Default	31
	UserPict. *2	User picture	From the stored files		First stored	32
CLOCK	**Clock Hr**	Clock hour	0 — 23 (1 — 12)		0 (0:00)	8
	Clock Min	Clock minute	00 — 59		00(0:00)	8
	24H/12H	Clock system	12Hours	24Hours	24Hours	8
	Auto Adj	Auto clock adjustment	Off	On	On	35
DISP	**Scroll**	Scroll mode	Once ↔ Auto ↔ Off		Once	36
	Dimmer	Dimmer	Auto ↔ Off ↔ Time Set ↔ On		Auto	38
	From– To *3	Dimmer timer	Any hour — Any hour		18:00–7:00	38
	Contrast	Contrast	1 — 10		5	36
	LCD Type	Display type	Auto ↔ Positive ↔ Negative		Auto	36
	Font Type	Font type	1	2	1	36
	Tag	Tag display	Off	On	On	36
	Theme	Level meter	Meter 1 ↔ Meter 2 ↔ Meter 3		Meter 1	36
	Key Info	Key Information	Off	On	On	36
TUNER	**PTY Stnby**	PTY Standby	29 programme types (see page 17)		News	14
	AF-Regn'l	Alternative frequency/ regional reception	AF ↔ AF Reg ↔ Off *4		AF	16
	TA Volume	Traffic announcement volume	00 — 50 *5 (or 00 — 30)		20	37
	P-Search	Programme search	Off	On	Off	17
	IF Filter	Intermediate frequency filter	Wide	Auto	Auto	37
	DAB AF *6	DAB Alternative frequency	Off	On	On	57
	Announce *6	Announcement standby	9 announcement types		Travel	55

PSM items			Selectable settings		Initial	Pages
AUDIO	**VSS**	Voice support system	Beep	Voice	Voice	37
	VSS Level	VSS level	Off ⟷ 1 ⟷ 2 ⟷ 3 ⟷ 4		3	37
	Language	Language	English ⟷ Deutsch ⟷ Français ⟷		English	37
	Ext Input *7	External Input	Changer	Line In	Changer	37
	Telephone	Telephone mute	Muting1 ⟷ Muting2 ⟷ Off ⟷		Off	37
	Amp Gain	Amp gain control	Low PWR	High PWR	High PWR	37
COLOR	**SOURCE**	Source	All sources		All Source	39
	USER DAY (USER NIGHT)	User color	USER DAY	USER NIGHT	USER DAY	40
	R	Red	00 — 11		USER DAY: 07 USER NIGHT:05	40
	G	Green	00 — 11		USER DAY: 07 USER NIGHT:05	40
	B	Blue	00 — 11		USER DAY: 07 USER NIGHT:05	40

*1 *Displayed only after a downloadable file is stored in memory.*
*2 *Displayed only after a downloadable file is stored in memory and while selecting "UserPict." for "Graphics."*
*3 *Displayed only when "Dimmer" is set to "Time Set."*
*4 *Displayed only when "DAB AF" is set to "Off."*
*5 *Depending on the "Amp Gain" setting.*
*6 *Displayed only when the DAB tuner is connected.*
*7 *Displayed only when the source is not an external component.*

To show the display demonstration

If no operation is done for about 20 seconds, display demonstration starts.

- **All Time**: Display demonstration (animation) appears.
- **ImageLink**: A still image included in an MP3/WMA folder appears while playing back the tracks in the folder (see page 19).
- **Interval**: Display demonstration (animation) and playback source indication appears alternately.
- **Off**: Cancels the demonstration.

To turn on and off the animation screens—KeyIn CFM

You can turn on and off the animation screens—opening, ending, source changing, and i-EQ selecting screens.

- **On**: An animation screens appear...
  - – When you turn on or off the power,
  - – When you change the sources, and
  - – When you select an i-EQ.
- **Off**: Cancels the animation screens.

To adjust the clock automatically —Auto Adj

When shipped from the factory, the clock built in this unit is set to be readjusted automatically using the CT (Clock Time) data in the RDS signal.

- **On**: Activates auto clock adjustment.
- **Off**: Cancels the adjustment.

To select the scroll mode—Scroll

The entire text information is shown by scrolling if it cannot be shown at a time.

- **Once**: While showing the disc information: scrolls the disc information only once.
  While showing the DAB text: scrolls the detailed DAB text.
- **Auto**: While showing the disc information: repeats the scroll (in 5-second intervals).
  While showing the DAB text: scrolls the detailed DAB text.
- **Off**: While showing the disc information: cancels scroll mode.
  While showing the DAB text: shows only headline if any.

To adjust the display contrast level —Contrast

You can adjust the contrast to make the display clear and legible.

To select the display illumination pattern—LCD Type

You can select the display illumination patterns.

- **Auto**: Positive pattern will be selected during the day time*, while negative pattern will be used during the night time*.
- **Positive**: Positive (normal) pattern of the display.
- **Negative**: Negative pattern of the display (except still images, animations, and audio level meters).

* *Depending on the "Dimmer" setting.*

To select the font type used on the display—Font Type

You can select either of the two fonts (**1** or **2**).

To turn the tag display on or off—Tag

An MP3 and WMA track can contain track information called "Tag" where its album name, performer, track title, etc. are recorded.

- **On**: Shows the Tag display while playing MP3 or WMA tracks.
- **Off**: Cancels the Tag display. Only the folder name and track name appear.

For MP3 tracks only: There are two versions– ID3v1 (ID3 Tag version 1) and ID3v2 (ID3 Tag version 2). When both ID3v1 and ID3v2 are recorded, ID3v2 will be shown.

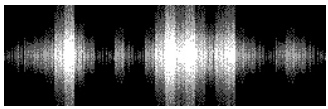
To select the audio level meter—Theme

You can select the level meter.

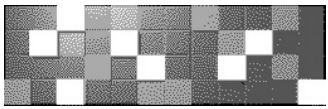
- To show the level meter, press DISP repeatedly.

- **Meter 1**:

- **Meter 2**:



- **Meter 3**:



To show or delete the key icon boundary on the touch panel—Key Info

Key icons have their own boundaries on the touch panel to make the operations easy. These boundaries can be shown or deleted according to your preference.

- **On**: To show the key icon boundary.
- **Off**: To delete the key icon boundary.

Though "Off" is selected, the key icon boundary will be shown while you are operating the touch panel. About 5 seconds after the operation, it goes off.

To set the Traffic Announcement volume—TA Volume

You can preset the volume level for TA Standby Reception. When a traffic programme is received, the volume level automatically changes to the preset level.

To change the FM tuner selectivity —IF Filter

In some areas, adjacent stations may interfere with each other. If this interference occurs, noise may be heard.

- **Auto**: When this type of interference occurs, this unit automatically increases the tuner selectivity so that interference noise will be reduced. (But the stereo effect will also be lost.)
- **Wide**: Subject to the interference from adjacent stations, but sound quality will not be degraded and the stereo effect will not be lost.

To change the voice support system —VSS

You can select either “Beep” or “Voice” for the voice support system (VSS).

- **Voice**: Guidance is announced in the language you have selected (see “To select the language for the VSS —Language” on the right column) when you operate the unit.
- **Beep**: A Beep sounds when you operate the unit.

To deactivate the VSS, select “Off” for “VSS Level” (see below).

To adjust the VSS level—VSS Level

You can adjust the volume level of the VSS sounds.

- By selecting “Off,” you can deactivate the VSS.

To select the language for the VSS —Language

You can select the language for the voice support system—English, German (Deutsch), or French (Français).

- The indications on the display will also be shown in the selected language.

To select the external component to use —Ext Input

To use the external component connected to the CD changer jack as the playback source through this unit, you need to select which component to use.

- **Changer**: To use a JVC CD changer.
- **Line In**: To use any external component.

To select the telephone muting —Telephone

This mode is used when a cellular phone system is connected. Depending on the phone system used, select either “Muting1” or “Muting2,” whichever mutes the sounds from this unit. During telephone muting, disc play pauses.

- **Muting1**: Selects this if this setting can mute the sounds while using the cellular phone.
- **Muting2**: Selects this if this setting can mute the sounds while using the cellular phone.
- **Off**: Cancels the telephone muting.

To select the amplifier gain control—Amp Gain

You can change the maximum volume level of this unit. When the maximum power of the speakers is less than 50 W, select “Low PWR” to prevent them from being damaged.

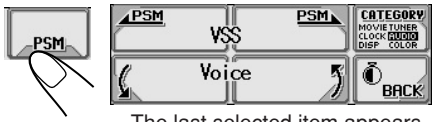
- **Low PWR**: You can adjust the volume level up to “Volume 30.”
- **High PWR**: You can adjust the volume level up to “Volume 50.”

Selecting the dimmer mode

You can dim the display at night automatically or as you set the timer.

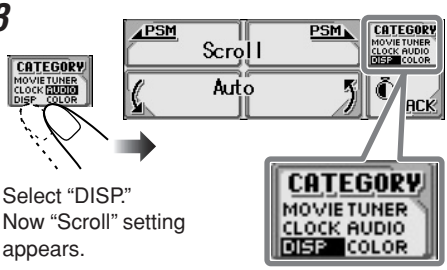
1

2



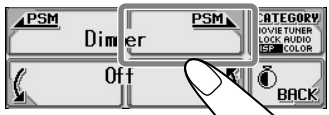
The last selected item appears.

3



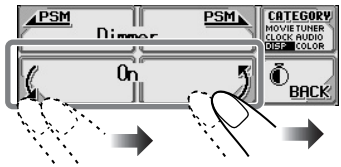
Select "DISP."
Now "Scroll" setting appears.

4



Select "Dimmer."

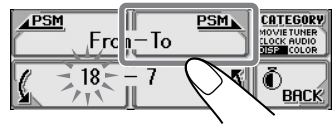
5



Select one of the following.

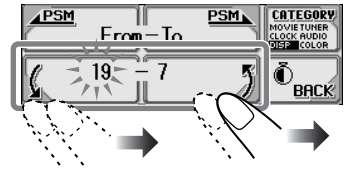
Auto:	Activates Auto Dimmer. ➡ **Go to step *10*.** • When you turn on the car head lights, the display dims.
Off:	Cancels Auto Dimmer. ➡ **Go to step *10*.**
On:	Always dims the display. ➡ **Go to step *10*.**
Time Set:	Set the timer for dimmer. ➡ **Go to step *6*.**

6



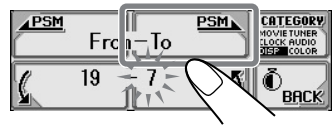
Select "From–To."

7

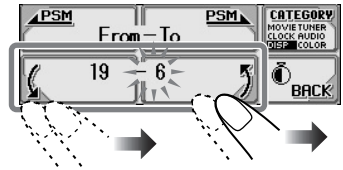


Set the dimmer start time.

8



9



Set the dimmer end time.

10

Exit.

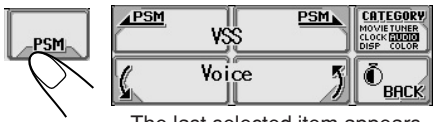
Changing the display color

You can select your favorite color for each source (or for all sources).

Setting the desired color for the source

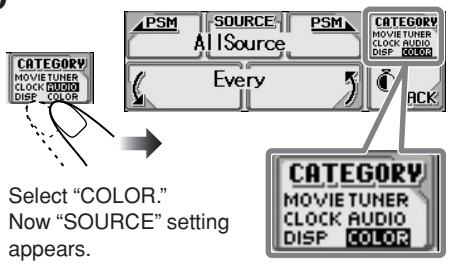
1

2



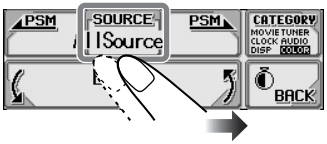
The last selected item appears.

3



Select "COLOR."
Now "SOURCE" setting appears.

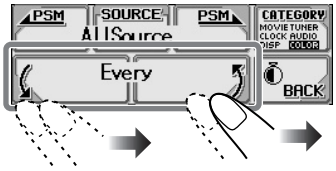
4



Select the source to which you apply the color.

- When you select "All Source," you can apply the same color to all sources.

5



Select the color.

Every*1 ⇄ Aqua ⇄ Sky ⇄ Sea ⇄ Leaves ⇄ Grass ⇄ Apple ⇄ Rose ⇄ Amber ⇄ Honey ⇄ Violet ⇄ Grape ⇄ Pale ⇄ User*2 ⇄
(back to the beginning)

*1 *When you select "Every," the color changes every 2 seconds (changing to every color listed above except "User").*

*2 *When you select "User," the user-edited colors—"USER DAY" and "USER NIGHT" will be applied. (See page 40.)*

6 **Repeat steps *4* and *5* to select the color for each source (except when selecting "All Source" in step *4*).**

7

Exit.

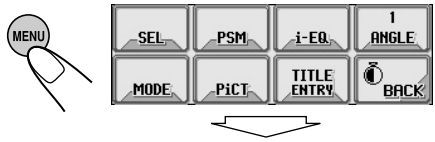
Creating your own color—User

You can create your own colors—"USER DAY" and "USER NIGHT," and select them for the display color.

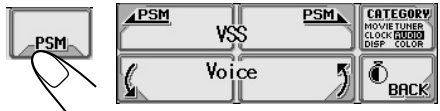
- **USER DAY**: Can be used as your user color during the day time*.
- **USER NIGHT**: Can be used as your user color during the night time*.

** Depending on the "Dimmer" setting*

1

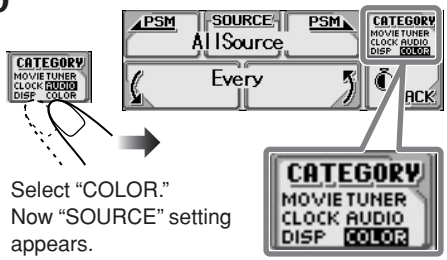


2



The last selected item appears.

3

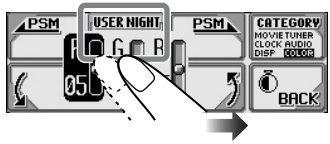


Select "COLOR."
Now "SOURCE" setting appears.

4

Select user color—either "USER DAY" or "USER NIGHT" will be selected.

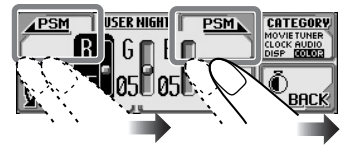
5



Select either "USER DAY" or "USER NIGHT" if necessary.

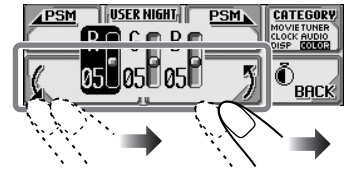
6 Adjust the selected user color.

1)



Select (highlight) one of three primary colors—R/G/B.

2)



Adjust the color

3) **Repeat steps 1) and 2) to adjust the other primary colors.**

7 Repeat steps *5* and *6* to adjust the other user color—"USER DAY" or "USER NIGHT."

8 After adjustment is over...

Exit.

Other Main Functions

Assigning titles to the sources

You can assign titles 40 CDs (both in this unit and in the CD changer) and the external component.

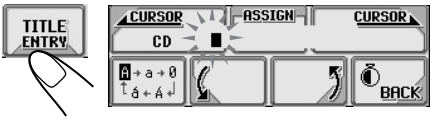
Source	Maximum number
CDs:	32 characters
External component:	8 characters

- You cannot assign a title to CD Text, MP3, and WMA discs.
- For available characters, see page 62.

1 **Prepare the source.**
- **For a CD in this unit**: Insert a CD.
- **For CDs in the CD changer**: Select "CD-CH," then select a disc number.

2

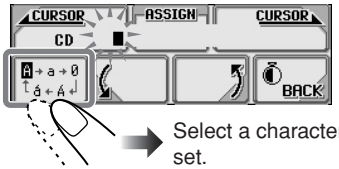
3



Ex. When you have selected "CD" and assign a title to the loaded disc

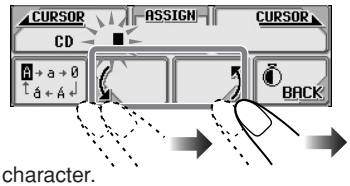
4 **Assign a title.**

1)



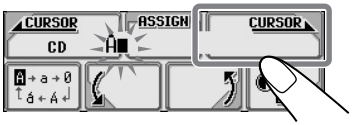
Select a character set.

2)



Select a character.

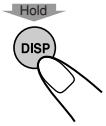
3)



Move to the next character position.

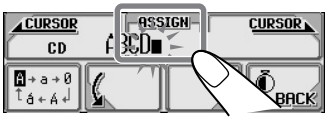
4) Repeat steps 1) to 3) until you finish entering the title.

To erase the characters....



The entire title (all entered characters) are erased at a time.

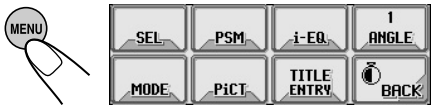
5



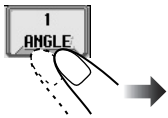
Changing the control panel angle

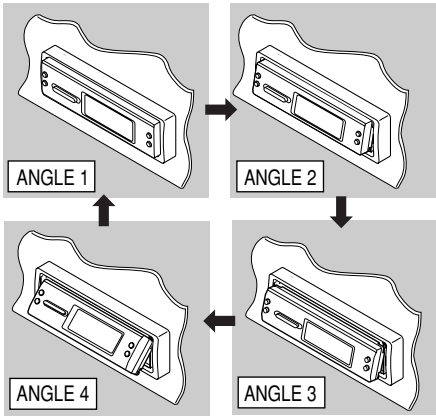
You can change the angle of the control panel.

1

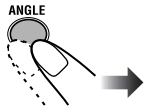


2





You can use the ANGLE button on the remote controller for changing the panel angle.



On the remote controller

CAUTION:

NEVER insert your finger in between the control panel and the unit, as it may get caught or hurt.

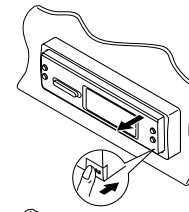
Detaching the control panel

- When detaching and attaching the control panel, be careful not to damage the connectors.

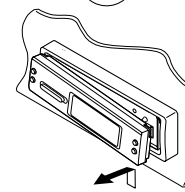
Detaching the control panel

Before detaching the control panel, be sure to turn off the power.

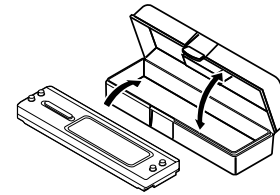
1



2

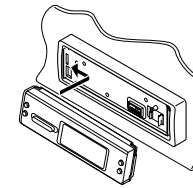


3

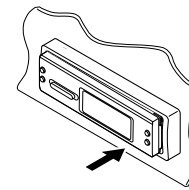


Attaching the control panel

1



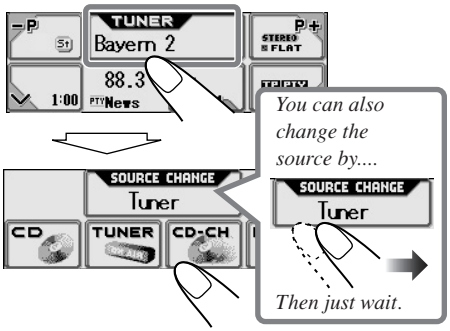
2



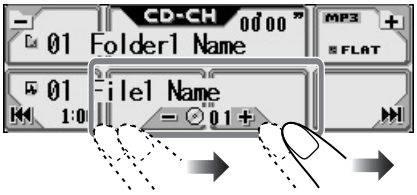
Basic CD Changer Operations

With JVC MP3-compatible CD changer connected, you can play back your original CD-Rs and CD-RWs recorded either in audio CD format or in MP3 format.

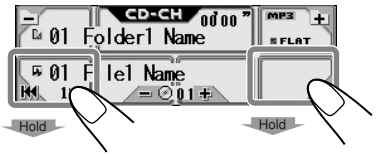
1 Select CD changer



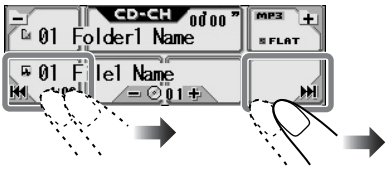
2 Select a disc



To fast-forward or reverse the track:

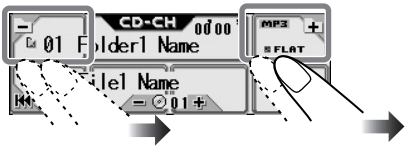


To go to the next or previous tracks:



To go to the next or previous folders:

For MP3 discs only:



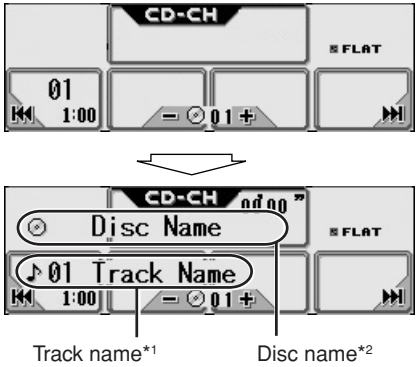
Main touch panels used in this section

CD Changer Operation screen: CD/CD Text

CD Changer Operation screen: MP3

- *When a track or folder whose number is greater than 99 is selected, the icon in front of the number (, , ,) goes off (to show its assigned 3-digit number).*

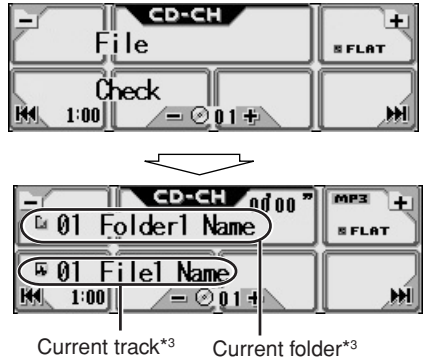
- **Display indications when the current disc is an audio CD or a CD Text:**



*1 *Appear only for CD Texts. ("No Name" appears if no name is recorded).*

*2 *Appear for CD Texts and CDs if it has been assigned. ("No Name" appears if no name is recorded or assigned).*

- **Display indications when the current disc is an MP3 disc:**



*3 *If "Tag" is set to "On" (see page 36), ID3 tag information will appear on the display if the disc has an ID3 tag.*
The album name/performer with (disc) indicator appears on the display instead of the folder name; while track title with (track) indicator appears instead of the track name.

It is recommended to use the JVC MP3-compatible CD changer with your unit.

- You can also connect the CH-X series CD changers (except CH-X99 and CH-X100). However, they are not compatible with MP3 discs, so you cannot play back MP3 discs.
- You cannot use the KD-MK series CD changers with this unit.

Before operating your CD changer:

- Refer also to the Instructions supplied with your CD changer.
- You cannot control and play any WMA disc in the CD changer.
- If no discs are in the magazine of the CD changer or the discs are inserted upside down, "No Disc" will appear. If this happens, remove the magazine and set the discs correctly.
- If no magazine is loaded in the CD changer, "No Magazine" appears. If this happens, insert the magazine in the CD changer.

Advanced CD Changer Operations

Locating a disc

To locate a disc

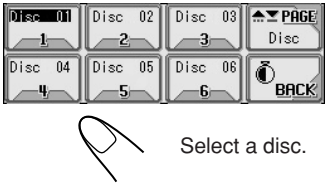
1

2

3

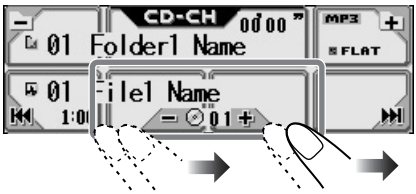
The current disc is highlighted.

4



Select a disc.

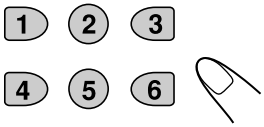
You can also select a disc....



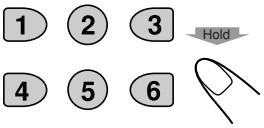
- If you hold the icon, the Disc List will appear on the display.

When using the remote controller:

- To select a disc number 1 – 6:



- To select a disc number from 7 (1) – 12 (6):



Main touch panels used in this section

CD Changer Mode screen

Works only when JVC MP3 compatible CD changer (CH-X1500) is connected.

Appears only for MP3 discs.

- To return to the previous screen, press "BACK" (if shown)

Disc List screen*1

*2

*1 The lists show the disc names actually recorded or assigned (the first 8 characters, see page 41).

*2 Press to go to the next list; hold to go back to the previous list.

Main touch panels used in this section

Folder List screen (only for MP3)*1

File (Track) List screen (only for MP3)*1

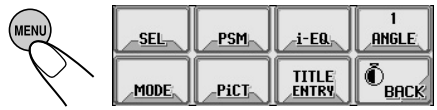
- To return to the previous screen, press “BACK” (if shown)

*1 The lists show the folder/file names actually recorded (the first 8 characters).
*2 Press to go to the next list; hold to go back to the previous list.

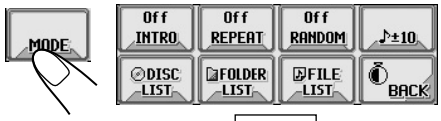
Locating a track or folder on a disc

To locate a folder on the screen (only for MP3 discs)

1



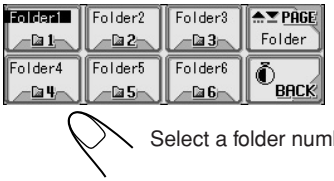
2



3

The current folder is highlighted.

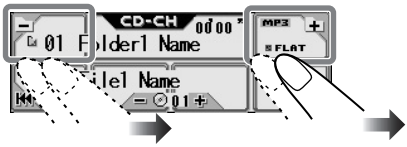
4



Select a folder number.

- If you select the currently selected folder (highlighted on the screen), the File List screen (see step ***3*** of the left column on page 47), then you can select a track to start with.

You can also select a folder....



- If you hold the icon, the Folder List will appear on the display.

To locate a track on the screen (only for MP3 discs)

1

2

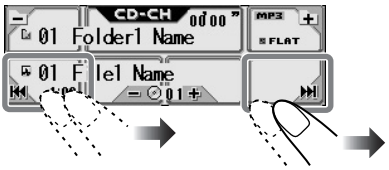
3

The current track is highlighted.

4

Select a track number.

You can also select a track....



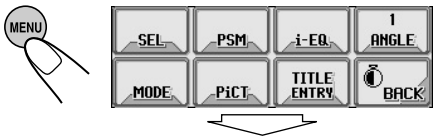
To skip 10 tracks at a time

You can quickly reach a desired track on a disc including many tracks.

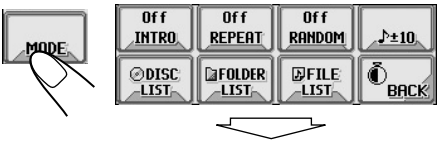
- This operation is only possible when using a JVC MP3 compatible CD changer (CH-X1500) .
- For MP3 discs, you can select only a track within the current folder.

Ex. To select track number 32 while playing track number 6

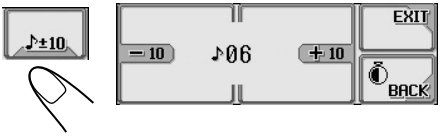
1



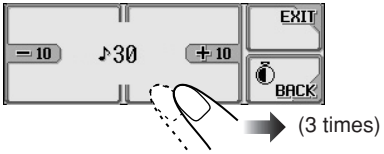
2



3



4

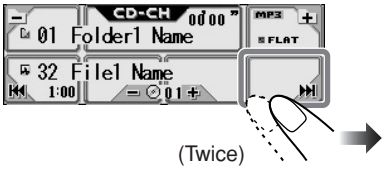


(3 times)

First time you press "+10" or "–10," the track skips to the nearest higher or lower track with a track number of multiple ten (ex. 10th, 20th, 30th).
Then, each time you press the button, you can skip 10 tracks.

5

6



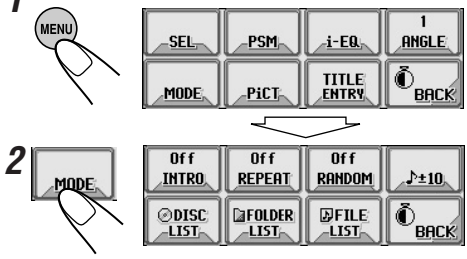
(Twice)

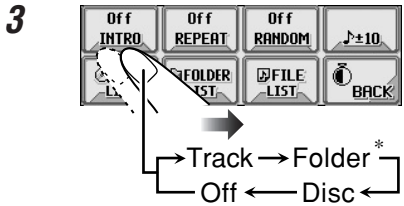
Selecting playback modes

You can use only one of the following playback modes at a time.

To play back only intros (Intro Scan)

You can play back the first 15 seconds of each track sequentially.



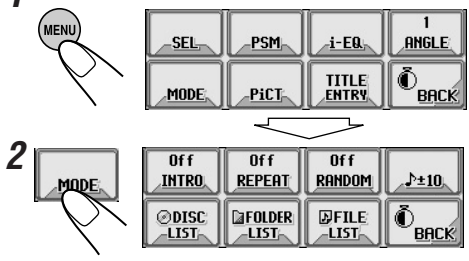


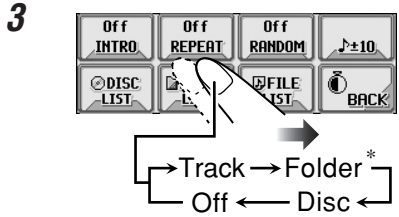
Mode	Plays the beginnings of
Track :	All tracks of the current disc. • While playing, INT lights up.
Folder* :	First tracks of all folders of the current disc. • While playing, INT lights up.
Disc :	First tracks of the all inserted discs. • While playing, INT lights up.
Off :	Cancels Intro Play.

* "Folder" can be selected for MP3 discs only.

To play back tracks repeatedly (Repeat Play)

You can repeat playback.





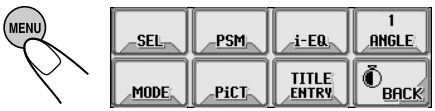
Mode	Plays repeatedly
Track :	Current track. • While playing, ♪ RPT lights up.
Folder* :	All tracks of the current folder. • While playing, RPT lights up.
Disc :	All tracks of the current disc. • While playing, RPT lights up.
Off :	Cancels Repeat Play.

* "Folder" can be selected for MP3 discs only.

To play back tracks at random (Random Play)

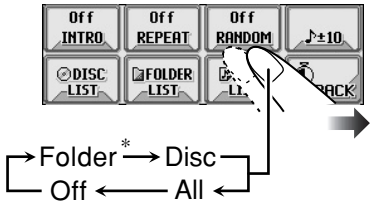
You can play back tracks at random.

1



2

3



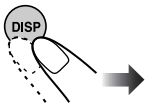
Mode	Plays randomly
Folder* :	All tracks of the current folder, then moves to the next folder and so on. • While playing, FLD RND lights up.
Disc :	All tracks of the current disc. • While playing, DISC RND lights up on.
All :	All tracks of all discs inserted in the magazine. • While playing, ALL RND lights up on.
Off :	Cancels Random Play.

* "Folder" can be selected for MP3 discs only.

4

Exit.

Changing the display pattern



CD Changer Operation screen

Clock time is enlarged.

Audio Level Meter (see page 36)

Graphic screen
(Appears only after you have download a file, see page 31)

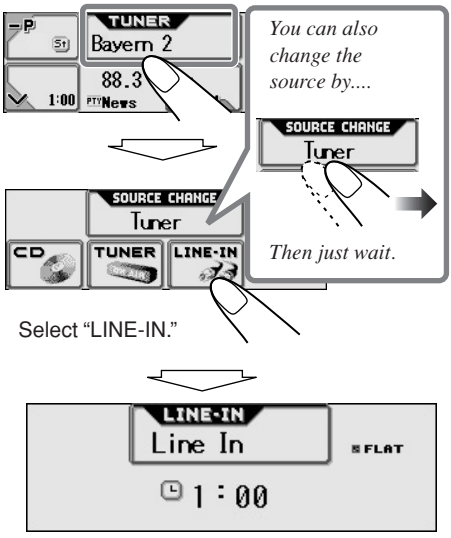
Goes back to the CD Changer Operation screen.

External Component Operations

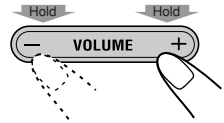
You can connect the external component to the CD changer jack on the rear using the special adapter for the component (not supplied). See the Installation/Connection Manual (separate volume).

- Before operating the external component, select the "Ext Input" setting correctly (see page 37).

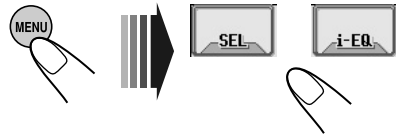
1 Select the source



2 Adjust the volume

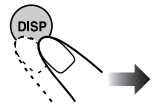


3 Adjust the sound



- For details, see pages 24 to 26.

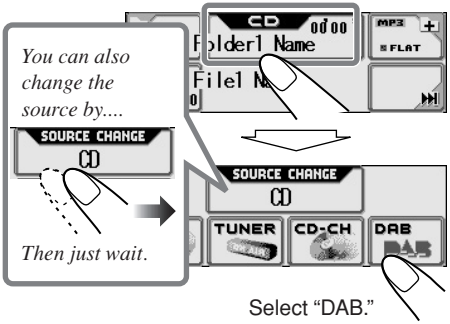
To change the display indication



DAB Tuner Operations

Listening to the DAB tuner

1 Select the DAB Tuner



2 Select the band

This receiver has three DAB bands (DAB1, DAB2, DAB3). You can use any one of them to listen to a DAB service.

3 Start searching for an ensemble

"Auto Search" begins.
When a station is received, searching stops.

To stop searching, press the same icon.

4 Select a service (either primary or secondary) to listen to

Main touch panels used in this section

DAB Tuner Operation screen

DAB Tuner Mode Menu

Preset Service List*1

*2

- To return to the previous screen, press "BACK" (if shown).

*1 The lists show the real service names (the first 8 characters).
*2 Press to change the DAB band (1→2→3→...); hold to change the DAB band (3→2→1→...).

What is DAB system?

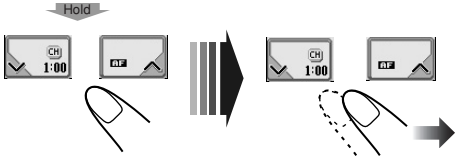
DAB can deliver CD quality sound without any annoying interference and signal distortion. Furthermore, it can carry text, pictures, and data. In contrast to FM broadcast, where each programme is transmitted on its own frequency, DAB combines several programmes (called "services") to form one "ensemble." In addition, each "service"—called "primary service"—can also be divided into its components (called "secondary service"). A typical ensemble has 6 or more programmes (services) broadcast at the same time.

It is recommended to use DAB (Digital Audio Broadcasting) tuner KT-DB1500 or KT-DB1000 with this unit. If you have another DAB tuner, consult your JVC IN-CAR ENTERTAINMENT dealer.

- Refer also to the Instructions supplied with your DAB tuner.

To tune in to an ensemble manually

In step ***3*** on page 51...



Activate "Manual Search."

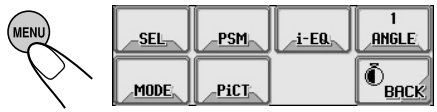
Select ensemble frequencies.

When surrounding sounds are noisy

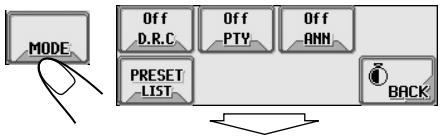
While driving, surrounding sounds will interfere with your listening. Especially the low level sounds will be hard to listen.
If this happens, you can reinforce the low level sounds to improve your listening to.

- For this purpose, some service provides Dynamic Range Control signals together with their regular programme signals.

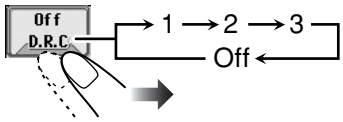
1



2

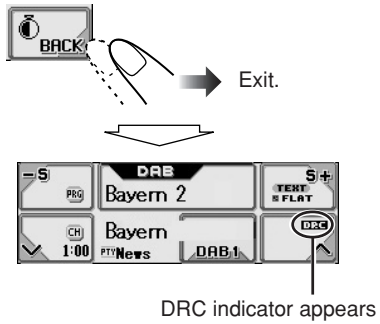


3



1/2/3:	The higher the number is, the stronger the reinforcement becomes.
Off:	Cancel the effect.

4



DRC indicator appears

- The DRC indicator will be highlighted (DRC) only when the unit received DRC signals from the tuned service.
  If it is not highlighted, this function does not work.

To search for your favorite service

You can search for any one of the PTY codes (either Dynamic or Static PTY).

- Operations are exactly the same as explained on pages 12 and 13 for FM RDS stations.
- You cannot store PTY codes separately for the DAB tuner and for the FM tuner.

To store your favorite programme (service) types, see page 13.

To search for your favorite programme (service) type, see page 12.

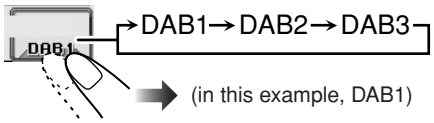
- Search will be performed on the DAB tuner only.

Storing DAB services in memory

You can preset 6 DAB services (primary services) for each band.

Ex. Storing an ensemble (primary service) into the preset number 1 of the DAB1 band.

1

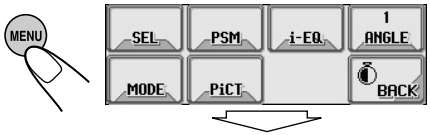


2

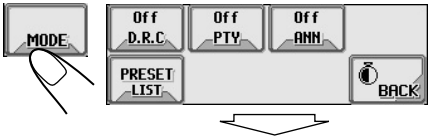
Select an ensemble (primary service).

- Holding S+ or −S on the DAB Tuner Operation screen can also display the Preset Service List (see step ***5*** that follows).

3

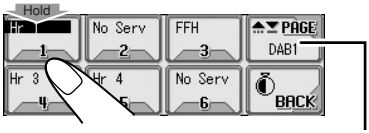


4



5

6



Select "1" in this example.

Move to the other DAB bands.*

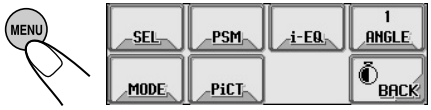
* Do not change the DAB band using this icon while presetting a service; otherwise, preset may fail.

Tuning in to a preset DAB service

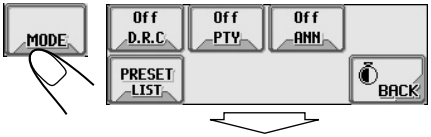
- Holding S+ or −S on the DAB Tuner Operation screen can also display the Preset Service List.

1

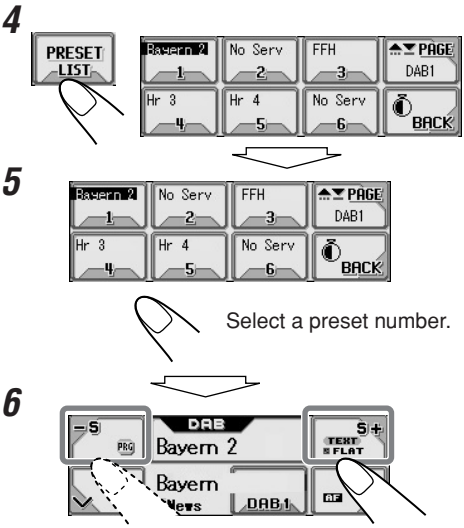
2



3



To be continued…



Using the Standby Reception

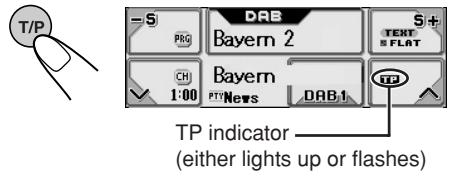
You can use three types of Standby Reception.
- Road Traffic News Standby Reception
- Announcement Standby Reception
- PTY Standby Reception

Using Road Traffic News Standby Reception

Road Traffic News Standby Reception allows the unit to switch temporarily to Road Traffic News (or Traffic Announcement) from any source except AM.

- If a Road Traffic News (or Traffic Announcement) starts broadcasting, "Traffic News" appears and the unit tunes into the service (or FM RDS station) broadcasting Road Traffic News (or Traffic Announcement). The volume changes to the preset TA volume level (see page 37).

To activate Road Traffic News Standby Reception (and TA Standby Reception):



- If the TP indicator lights up, Road Traffic News Standby Reception (or TA Standby Reception) is activated.
  - When a service which is **supporting** Road Traffic News is received. This unit now stands by for the Road Traffic News signal reception—Road Traffic News Standby Reception.
  - When a service which is **not supporting** Road Traffic News signal is received. This unit now stands by for the TA signal reception—TA Standby Reception (see page 14).

- If the TP indicator flashes, Road Traffic News Standby Reception is not yet activated.
  To activate Road Traffic News Standby Reception, tune in to another DAB service supporting these signals.
  When you tune in to such a service, the TP indicator stops flashing and remains lit. Now Road Traffic News Standby Reception is activated.

To deactivate the Road Traffic News Standby Reception (and TA Standby Reception):

TP indicator goes off.

Using Announcement Standby Reception

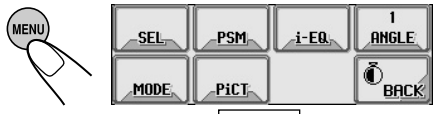
Announcement Standby Reception allows the unit to switch temporarily to your favorite service (Announcement type) from any source except AM.

To select your favorite announcement type for Announcement Standby Reception

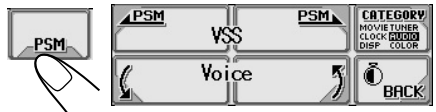
You can select your favorite announcement type for Announcement Standby Reception.

- When shipped from factory, Announcement Standby Reception has been set to work for searching for "Travel" services.

1

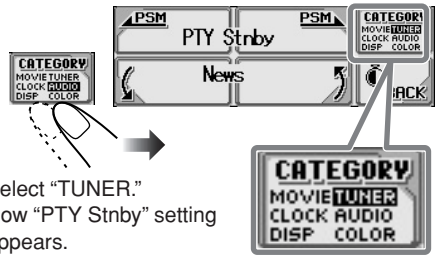


2



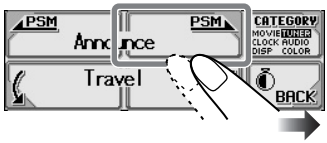
The last selected item appears.

3



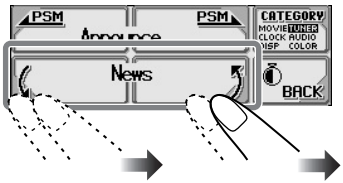
Select "TUNER."
Now "PTY Stnby" setting appears.

4



Select "Announce."

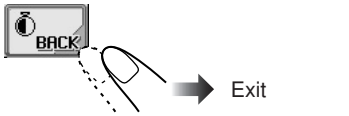
5



Select an announcement type.

Travel:	Programmes about travel destinations, package tours, and travel ideas and opportunities
Warning:	Warnings about earthquakes, tsunami, etc.
News:	News
Weather:	Weather information
Event:	Information about events, concerts, etc.
Special:	Special programmes expanding on current news or affairs
Rad Inf:	Radio information
Sports:	Sport events
Finance:	Reports on commerce, trading, the stock market, etc.

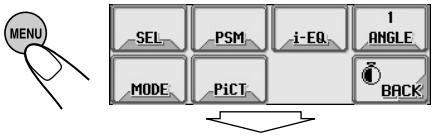
6



To activate Announcement Standby Reception

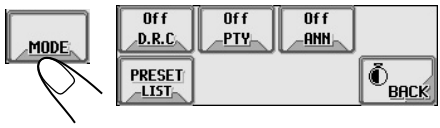
- After activating Announcement Standby Reception, you can change the source without canceling Announcement Standby Reception (except to AM).

1 **While listening to a DAB service....**

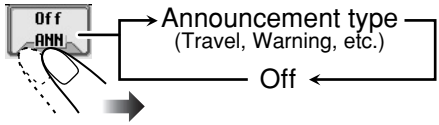


To be continued…

2

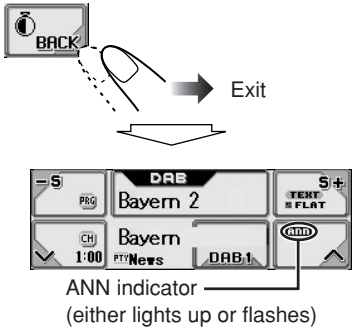


3



Announcement type:	Activates Announcement Standby Reception for the selected announcement type.
Off:	Cancels the Reception.

4



- If the ANN indicator lights up, Announcement Standby Reception is activated.

- If the ANN indicator flashes, Announcement Standby Reception is not yet activated.
  To activate Announcement Standby Reception, tune in to another service providing these signals.
  When you tune in to such a station, the ANN indicator stops flashing and remains lit. Now Announcement Standby Reception is activated.

Using PTY Standby Reception

PTY Standby Reception allows the unit to switch temporarily to your favorite programme (PTY: Programme Type) from any source except AM stations

- Operations are exactly the same as explained on pages 14 and 15 for FM RDS stations.
- You cannot use PTY Standby Reception separately for the DAB tuner and for the FM tuner.

To select your favorite PTY code for PTY Standby Reception, see page 14.

To activate PTY Standby Reception, see page 15.

- You can activate and deactivate PTY Standby Reception when the source is either “FM” or “DAB.”

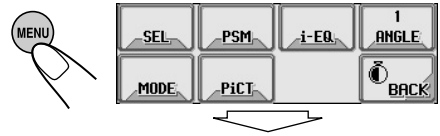
Tracing the same programme— Alternative Reception

You can keep listening to the same programme.

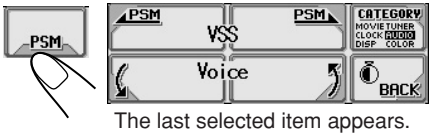
- **While receiving a DAB service:**
  When driving in an area where a service cannot be received, this unit automatically tunes in to another ensemble or FM RDS station broadcasting the same programme.
- **While receiving an FM RDS station:**
  When driving in an area where a DAB service is broadcasting the same programme as the FM RDS station is broadcasting, this unit automatically tunes in to the DAB service.

To change the Alternative Reception setting, follow the procedure below:

1

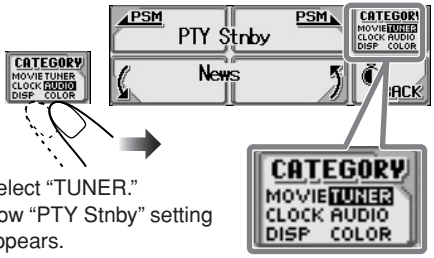


2



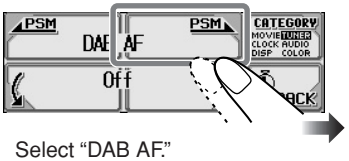
The last selected item appears.

3



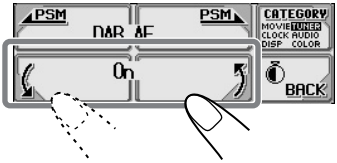
Select "TUNER."
Now "PTY Stnby" setting appears.

4



Select "DAB AF."

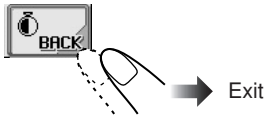
5



Change the setting.

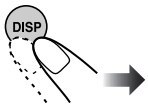
On:	Traces the programme among DAB services and FM RDS stations • The AF indicator lights up on the display.
Off:	Cancels the Reception. • The AF indicator goes off.

6



Exit

Changing the display pattern



DAB Tuner Operation screen

Preset number if any

Lights when receiving a service providing Dynamic Label Segment (DLS—DAB radio text).

DLS is shown if any.

Clock time is enlarged.

Audio Level Meter (see page 36)

Graphic screen
(Appears only after you have download a file, see page 31)

Goes back to the DAB Tuner Operation screen.

Maintenance

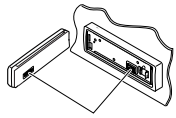
How to clean the touch panel

When removing stains or dust on the surface, turn off the power, then wipe with dry soft cloth.

- Be careful not to scratch the surface when wiping it.
- Do not use the following materials to clean the touch panel:
  - Wet cloth
  - Volatile substance such as benzine and thinner
  - Acid detergent, alkaline detergent, and detergent composed of organic substance
- When using chemically processed duster, read its precautions carefully.

How to clean the connectors

Frequent detachment will deteriorate the connectors. To minimize this possibility, periodically wipe the connectors with a cotton swab or cloth moistened with alcohol, being careful not to damage the connectors.



Connectors

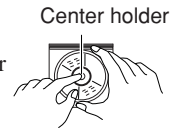
Moisture condensation

Moisture may condense on the lens inside the CD player in the following cases:

- After starting the heater in the car.
- If it becomes very humid inside the car.

Should this occur, the CD player may malfunction. In this case, eject the disc and leave the unit turned on for a few hours until the moisture evaporates.

How to handle discs



When removing a disc from its case, press down the center holder of the case and lift the disc out, holding it by the edges.

- Always hold the disc by the edges. Do not touch its recording surface.

When storing a disc into its case, gently insert the disc around the center holder (with the printed surface facing up).

- Make sure to store discs into the cases after use.

To keep discs clean

A dirty disc may not play correctly.
If a disc does become dirty, wipe it with a soft cloth in a straight line from center to edge.

- Do not use any solvent (for example, conventional record cleaner, spray, thinner, benzine, etc.) to clean discs.

To play new discs

New discs may have some rough spots around the inner and outer edges. If such a disc is used, this unit may reject the disc.
To remove these rough spots, rub the edges with a pencil or ball-point pen, etc.

Do not use the following discs:

More about This Receiver

Basic Operations

General

- The clock in the “BACK” icon on the screen works as the time countdown indicator. If no operation is done for a certain period of time, the current screen goes off, and the source operation screen resumes.

Selecting the source

- If a disc is not loaded, you cannot select “CD” for the playback source.
- Without connecting the CD changer, you cannot select “CD-CH (CD changer)” for the playback source.
- To select the external component for the playback source, set the “Ext Input” setting correctly (page 37).
- If a DAB tuner is not connected, you cannot select “DAB” for the playback source.

Turning off the power

- If you turn off the power while listening to a disc, disc play will start from where playback has been stopped previously, next time you turn on the power.

Tuner Operations

Storing stations in memory

- When SSM is carried out for a band...
  – All stations previously stored for the band are erased and stations are stored newly.
  – Received stations are preset in the number buttons No.1 (lowest frequency) to No.6 (highest frequency). When SSM is over, the station stored in number button 1 will be automatically tuned in.
- When storing a station manually, a previously preset station is erased when a new station is stored in the same preset number.
- Preset stations are erased when the power supply to the memory circuit is interrupted (for example, during battery replacement). If this occurs, preset the stations again.

FM RDS operations

- Network-Tracking Reception requires two types of RDS signals—PI (Programme Identification) and AF (Alternative Frequency) to work correctly. Without receiving these data correctly, Network-Tracking Reception will not operate.
- If Alternative Reception (for DAB: see page 56) is activated, Network-Tracking Reception is also activated (“AF”) automatically. On the other hand, Network-Tracking Reception cannot be deactivated without deactivating Alternative Reception.
- TA Standby Reception and PTY Standby Reception will be temporarily canceled while listening to an AM station.

Basic Disc Operations

General

- This unit has been designed to reproduce CDs/CD Texts, and CD-Rs (Recordable)/ CD-RWs (Rewritable) in both audio and MP3/WMA formats.
- The unit cannot read or play an MP3 track without the extension code <mp3>, and a WMA track without the extension code <wma>.
- When a disc has been already loaded, selecting “CD” for the playback source starts disc play.

Inserting a disc

- When a disc is inserted upside down, the disc automatically ejects.
- If you keep the control panel open for about 1 minute, the control panel returns to its previous position.

Playing a disc

- While playing an audio CD: If a title has been assigned to the audio CD (see page 41), it will be shown on the display.
- While fast-forwarding or reversing on an MP3 or WMA disc, you can only hear intermittent sounds. (The elapsed playing time also changes intermittently on the display.)

When playing a CD-R or CD-RW

- Use only “finalized” CD-Rs or CD-RWs.
- Some CD-Rs or CD-RWs may not play back on this unit because of their disc characteristics, and for the following causes:
  – Discs are dirty or scratched.
  – Moisture condensation on the lens inside the unit.
  – The pickup lens inside the unit is dirty.
- CD-RWs may require a longer readout time since the reflectance of CD-RWs is lower than that of regular CDs.
- Do not use following CD-Rs or CD-RWs:
  – Discs with stickers, labels, or protective seal stuck to the surface.
  – Discs on which labels can be directly printed by an ink jet printer.

  Using these discs under high temperatures or high humidity may cause malfunctions or damage to discs. For example,
  – Stickers or labels may shrink and warp a disc.
  – Stickers or labels may peel off so discs cannot be ejected.
  – Print on discs may get sticky.

  Read instructions or cautions about labels and printable discs carefully.

Changing the source

- If you change the source, playback also stops (without ejecting the disc).
  Next time you select “CD” for the playback source, disc play starts from where it has been stopped previously.

ImageLink

- ImageLink will not work in the following cases:
  – If no <jll> file is included in an MP3/WMA folder.
  – If Intro Scan is activated.
  – If the source is changed to another from "CD."
  – If more than one <jll> file are included in a folder, a file with the youngest file number is used for the graphic screen.

Ejecting a disc

- If the ejected disc is not removed within 15 seconds, the disc is automatically inserted again into the loading slot to prevent it from dust. (Disc will not play this time.)

Advanced Disc Operations

Locating a track or on a disc

- You can skip 10 tracks at a time only if there are more than 10 tracks in a disc or in a folder.

Sound Adjustment

General

- If you are using a two-speaker system, set the fader level to "00."
- Subwoofer out setting takes effect only when a subwoofer is connected.
- You cannot make the input level—Volume Adjustment—of the FM stations. If the source is FM, "Fix" will appear when you try to adjust it.

Storing your own sound modes

- If you do not want to store your current adjustment, but only to apply the adjustment to the current playback source, press "BACK" repeatedly to go back to the operation screen of the current source. Adjustment you made remains effective until you select a sound mode.

Graphic Displays

Downloading (or deleting) files

- You can download a file only while selecting "CD" for the playback source; on the other hand, you can delete a file while selecting any source.
- If you have already downloaded an animation for "OPENING," "ENDING," or "MOVIE," downloading a new animation deletes the previously stored animation.
- It takes a long time to download an animation.
  – About 3 to 4 seconds for a still image (one frame).
  – About 1 to 2 minutes for an animation of 30 frames.
  – About 4 minutes for an animation of 90 frames.
- If a disc inserted does not include any <jll> and <jla> files, beeps sound when you try to operate the downloading procedure.
- If you try to store a 31st image for picture screen, "Picture Full" appears and you cannot start downloading. Delete unwanted files before downloading.
- If the total frame number of an animation downloaded exceeds the following number, the frames exceeding that numbers are ignored.
  – For "OPENING" and "ENDING": 30
  – For "MOVIE": 90

General Settings—PSM

- "Auto Dimmer" may not work correctly on some vehicles, particularly on those having a control dial for dimming. In this case, change the "**Dimmer**" setting to any one other than "Auto."
- If "**LCD Type**" is set to "Auto," the display pattern will change to the "Negative" or "Positive" pattern depending on the "**Dimmer**" setting
- If you change the "**Amp Gain**" setting from "High PWR" to "Low PWR" while the volume level is set higher than "Volume 30," the unit automatically changes the volume level to "Volume 30."

Other Main Functions

Assigning titles to the sources

- When you try to assign a title to a 41st disc, "Name Full" appears and you cannot enter the text entry mode. Delete unwanted titles before assignment.
- When the CD changer is connected, you can assign titles to CDs in the CD changer. These titles can also be shown on the display if you insert the CDs in this unit.

DAB Tuner Operations

- PTY Standby Reception works for the DAB tuner only using a Dynamic PTY, but not a Static PTY.
- TA Standby Reception for FM RDS station and Road Traffic News Standby Reception for DAB cannot be set separately. The T/P button always work for the both Standby Reception modes when the DAB tuner is connected.

Characters shown on the display

In addition to the Roman alphabets (A – Z, a –z), the following characters will be used to show the various information on the display.

- You can also use the following characters to assign titles (see page 41).

Upper case

Á	À	Â	Ä	Ă
Å	Æ	Œ	Č	Ć
Ç	É	È	Ê	Ë
Ğ	Í	Ì	Î	Ï
Ñ	Ó	Ò	Ô	Ö
Õ	Ø	Ř	Ŕ	Š
Ś	Ş	Ú	Ù	Û
Ü	Ý	Ž	Ź	ß
Þ	Ŋ	Đ	Ŧ	Ł
Í	Ų	ð	space	

Lower case

á	à	â	ä	ă
å	æ	œ	č	ć
ç	é	è	ê	ë
ě	ğ	í	ì	î
ï	ñ	ň	ń	ó
ò	ô	ö	õ	ø
ő	ř	ŕ	š	ś
ş	ú	ù	û	ü
ű	ŵ	ý	ŷ	ž
ź	ÿ	þ	ŋ	đ
ŧ	ĺ	ı	ij	space

Numbers and symbols

0	1	2	3	4
5	6	7	8	9
!	”	#	$	%
&	’	(	)	*
+	,	–	.	/
:	;	<	=	>
?	@	_	`	¡
¿	£	€	α	space

About mistracking:

Mistracking may result from driving on extremely rough roads. This does not damage the unit and the disc, but will be annoying.
It is recommend to stop disc play while driving on such rough roads.

Troubleshooting

What appears to be trouble is not always serious. Check the following points before calling a service center.

General

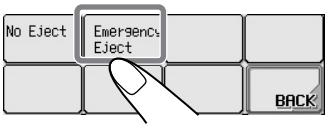
- **Main menu screen or other screens suddenly go off.**
  ⇨ There is a time limit for some operations. In this case, if no operation is done for a certain period, the current source operation screen resumes.
- **Sound is sometimes interrupted.**
  ⇨ You are driving on rough roads. Stop playback while driving on rough roads.
  ⇨ Disc is scratched.
- **Sound cannot be heard from the speakers.**
  ⇨ Connections are incorrect.
- **"Connect Error" appears on the display.**
  ⇨ The control panel is not attached correctly. Remove the control panel, wipe the connector (see page 58), then attach it again.
- **"Reset P00" — "Reset P44" appears on the display.**
  ⇨ Something is blocking the control panel movement. Press the reset button (see page 2). If it does not work, check the installation (ex. whether screws longer than specified are used or not).

FM/AM broadcast

- **SSM automatic presetting does not work.**
  ⇨ Signals are too weak. Store stations manually.
- **Static noise is generated while listening to the radio.**
  ⇨ The antenna is not connected firmly.

Disc playback—CD/CD-R/CD-RW

- **Disc cannot be played back.**
  ⇨ Disc is inserted upside down.
- **Disc cannot be recognized ("No Disc," "Loading Error," or "Eject Error" flashes).**
  ⇨ The CD player may function incorrectly. Press ⏻/I ATT and ⏏ at the same time for more than 2 seconds to display the following screen, then press "Emergency Eject."



- **Tracks on the CD-R/CD-RW cannot be skipped.**
  ⇨ CD-R/CD-RW is not finalized.
- **Disc cannot be ejected.**
  ⇨ Disc is locked. Unlock the disc (see page 21).

Disc playback—MP3/WMA

- **Disc cannot be played back.**
  ⇨ MP3/WMA tracks do not have the extension code—<mp3> or <wma> in their file names.
  ⇨ MP3/WMA tracks are not recorded in the format compliant with ISO 9660 Level 1, ISO 9660 Level 2, Romeo, or Joliet.
- **Noise is generated.**
  ⇨ The current track is not an MP3/WMA file (although it has the extension code—<mp3> or <wma>).
- **Elapsed playing time is not correct.**
  ⇨ This sometimes occurs during play. This is caused by how the tracks are recorded on the disc.
- **"Not Support" appears and tracks skip.**
  ⇨ Tracks are not encoded in an appropriate format.
  ⇨ Copy-protected WMA tracks cannot be played back.

- **“No Files” appears for a while, then the disc ejects.**
  ⇨ The current MP3/WMA disc does not contain any MP3/WMA tracks.
- **“No Music” appears.**
  ⇨ No MP3/WMA tracks are included in the folder. Skip the folder.
  ⇨ Only <jll> and/or <jla> files are recorded on the disc.
- **Correct characters are not displayed (e.g. album name).**
  ⇨ This unit can only display a limited number of special characters (see the tables on page 62).

Graphics

- **Download does not seem to finish.**
  ⇨ If you are trying to download an animation of many frames, it takes a quite long time (see page 61).
- **Animation does not move.**
  ⇨ Temperature in the car compartment is very low—LowTEMP appears. Wait until the operating temperature resumes—until LowTEMP goes off.
- **The entire animation has not been downloaded.**
  ⇨ “OPENING” and “ENDING” can only memorize 30 frames of the animation even it includes 90 frames.

Preferred Setting Modes—PSM

- **“Movie” category settings in the PSM do not take effect.**
  ⇨ Temperature in the car compartment is very low—LowTEMP appears. Wait until the operating temperature resumes—until LowTEMP goes off.
- **“Opening” and “Ending” cannot be selected.**
  ⇨ If “KeyIn CFM” is set to “Off,” you cannot select them.
- **You cannot select an image for “UserPict.” (“---------” appears for the file name on the lower part of the display.)**
  ⇨ You can select an image only after downloading the appropriate files in memory.

External component operations

- **The external component you want is not selected for the playback source.**
  ⇨ Select the appropriate source for the “Ext Input” setting.

CD changer operations

- **“No Magazine” flashes.**
  ⇨ Magazine is not loaded in the CD changer.
- **“No Disc” flashes.**
  ⇨ No discs are in the magazine or the discs are inserted upside down.
- **“Reset 01” — “Reset 07” flashes.**
  ⇨ The built-in microcomputer in the CD changer is malfunctioning. Press the reset button of the CD changer.
- **“Reset 08” flashes.**
  ⇨ This unit is not connected to a CD changer correctly. Connect this unit and the CD changer correctly and press the reset button of the CD changer.

Specifications

AUDIO AMPLIFIER SECTION

Maximum Power Output:
- Front: 50 W per channel
- Rear: 50 W per channel

Continuous Power Output (RMS):
- Front: 19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
- Rear: 19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.

Load Impedance: 4 Ω (4 Ω to 8 Ω allowance)
Equalizer Control Range:
- Frequencies: 60 Hz, 150 Hz, 400 Hz, 1 kHz, 2.4 kHz, 6 kHz, 12 kHz
- Level: ±10 dB

Frequency Response: 40 Hz to 20 000 Hz
Signal-to-Noise Ratio: 70 dB
Line-Out Level/Impedance:
5.0 V/20 kΩ load (full scale)
Output Impedance: 1 kΩ
Other Terminals:
- SUBWOOFER OUT
- Changer control
- Steering wheel remote input

TUNER SECTION

Frequency Range:
- FM: 87.5 MHz to 108.0 MHz
- AM: (MW) 522 kHz to 1 620 kHz
  (LW) 144 kHz to 279 kHz

[FM Tuner]

Usable Sensitivity: 11.3 dBf (1.0 µV/75 Ω)
50 dB Quieting Sensitivity: 16.3 dBf (1.8 µV/75 Ω)
Alternate Channel Selectivity (400 kHz): 65 dB
Frequency Response: 40 Hz to 15 000 Hz
Stereo Separation: 35 dB
Capture Ratio: 1.5 dB

[MW Tuner]

Sensitivity: 20 µV
Selectivity: 65 dB

[LW Tuner]

Sensitivity: 50 µV

CD PLAYER SECTION

Type: Compact disc player
Signal Detection System: Non-contact optical pickup (semiconductor laser)
Number of channels: 2 channels (stereo)
Frequency Response: 5 Hz to 20 000 Hz
Dynamic Range: 98 dB
Signal-to-Noise Ratio: 102 dB
Wow and Flutter: Less than measurable limit
MP3 (MPEG Audio Layer 3)
Max. Bit rate: 320 Kbps
WMA (Windows Media® Audio)
Max. Bit rate: 192 Kbps

GENERAL

Power Requirement:
Operating Voltage: DC 14.4 V (11 V to 16 V allowance)
Grounding System: Negative ground
Allowable Operating Temperature: 0°C to +40°C
Dimensions (W × H × D):
Installation Size: 182 mm × 52 mm × 157.5 mm
Panel Size: 188 mm × 58 mm × 13 mm
Mass: 1.86 kg (excluding accessories)

Design and specifications are subject to change without notice.

- *Microsoft and Windows Media are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.*

Having TROUBLE with operation?
Please reset your unit
Refer to page of How to reset your unit

¿Tiene PROBLEMAS con la operación?
Por favor reinicialice su unidad
Consulte la páfina de Cómo reposicionar su unidad

Vous avez des PROBLÈMES de fonctionnement?
Réinitialisez votre appareil
Référez-vous à la page intitulée Comment réinitialiser votre appareil

Çalıştırmakta GÜÇLÜK mü çekiyorsunuz?
Lütfen ünitenizi sıfırlayın
“Ünitenizin sıfırlanması” sayfasına başvurun

JVC
VICTOR COMPANY OF JAPAN, LIMITED

EN, SP, FR, TR

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0204MNMMDWJEIN

KD-LHX502/KD-LHX501

Installation/Connection Manual
Manual de instalación/conexión
Manuel d'installation/raccordement
Montaj/Bağlantı Elkitabı

LVT1136-009A
[EU]

0204MNMMDWJEIN
EN, SP, FR, TR

ENGLISH

This unit is designed to operate on **12 V DC, NEGATIVE ground electrical systems**. If your vehicle does not have this system, a voltage inverter is required, which can be purchased at JVC IN-CAR ENTERTAINMENT dealers.

ESPAÑOL

Esta unidad está diseñada para funcionar con **12 V de CC, con sistemas eléctricos de masa NEGATIVA**. Si su vehículo no posee este sistema, será necesario un inversor de tensión, que puede ser adquirido en los concesionarios de JVC de equipos de audio para automóviles.

FRANÇAIS

Cet appareil est conçu pour fonctionner sur des sources de courant continu de **12 V à masse NEGATIVE**. *Si votre véhicule n'offre pas ce type d'alimentation, il vous faut un convertisseur de tension, que vous pouvez acheter chez un revendeur d'autoradios JVC.*

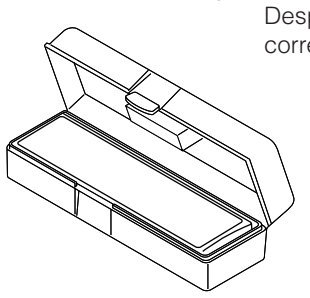
TÜRKÇE

Bu ünite, **12 V DC ve NEGATİF topraklı elektrik sistemleriyle** çalışmak üzere tasarlanmıştır. Taşıtınızın elektrik sistemi buna uygun değilse, bir voltaj inverteri gerekecektir; sözü edilen aygıt, JVC TAŞIT İÇİ EĞLENCE bayilerinden satın alınabilir.

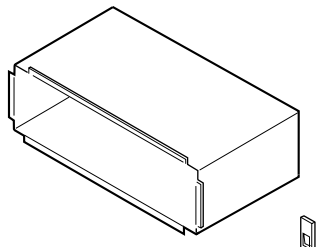
Parts list for installation and connection

The following parts are provided with this unit. After checking them, please set them correctly.

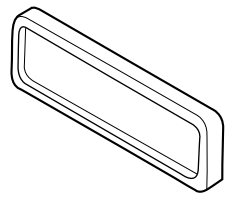
Ⓐ / Ⓑ
Hard case/Control panel
Estuche duro/Panel de control
Etui de transport/Panneau de commande
Kutu/Kontrol panosu



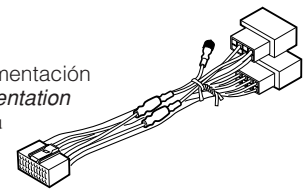
Ⓒ
Sleeve
Cubierta
Manchon
Yarım kızak



Ⓓ
Trim plate
Placa de guarnición
Plaque d'assemblage
Çerçeve plakası



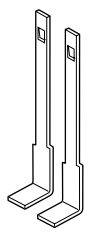
Ⓔ
Power cord
Cordón de alimentación
Cordon d'alimentation
Elektrik kablosu



Ⓕ
Washer (ø5)
Arandela (ø5)
Rondelle (ø5)
Pul (ø5)

Ⓖ
Lock nut (M5)
Tuerca de seguridad (M5)
Ecrou d'arrêt (M5)
Emniyet somunu (M5)

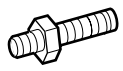
Ⓗ
Handles
Manijas
Poignées
Kızak anahtarı



Ⓘ
Battery
Pila
Pile
Pil

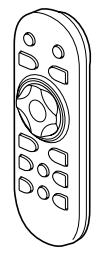
CR2025

Ⓙ
Mounting bolt (M5 x 20 mm)
Perno de montaje (M5 x 20 mm)
Boulon de montage (M5 x 20 mm)
Montaj cıvatası (M5 x 20 mm)

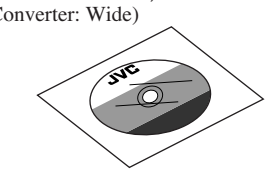


Ⓚ
Rubber cushion
Cojín de goma
Amortisseur en caoutchouc
Lastik tampon

Ⓛ
Remote controller
Control remoto
Télécommande
Uzaktan kumanda



Ⓜ
CD-ROM (Image Converter: Wide)
CD-ROM (Image Converter: Ancho)
CD-ROM (Image Converter: Wide)
CD-ROM (Image Converter: Wide)



Lista de piezas para instalación y conexión

Con esta unidad se suministran las siguientes piezas.
Después de inspeccionarlas, colóquelas correctamente.

Liste des pièces pour l'installation et raccordement

Les pièces suivantes sont fournies avec cet appareil.
Après vérification, veuillez les placer correctement.

Montaj ve bağlantılar için gerekli parçaların listesi

Bu üniteyle birlikte sağlanan parçalar aşağıda gösterilmektedir.
Parçaları kontrol ettikten sonra doğru yerlerine yerleştirin.

INSTALLATION (IN-DASH MOUNTING)

The following illustration shows a typical installation. If you have any questions or require information regarding installation kits, consult your JVC IN-CAR ENTERTAINMENT dealer or a company supplying kits.

- If you are not sure how to install this unit correctly, have it installed by a qualified technician.

INSTALACIÓN (MONTAJE EN EL TABLERO DE INSTRUMENTOS)

La siguiente ilustración muestra una instalación típica. Si tiene alguna pregunta o necesita información acerca de las herramientas para instalación, consulte con su concesionario de JVC de equipos de audio para automóviles o a una compañía que suministra tales herramientas.

- Si usted no está seguro de cómo instalar correctamente la unidad, hágala instalar por un técnico cualificado.

INSTALLATION (MONTAGE DANS LE TABLEAU DE BORD)

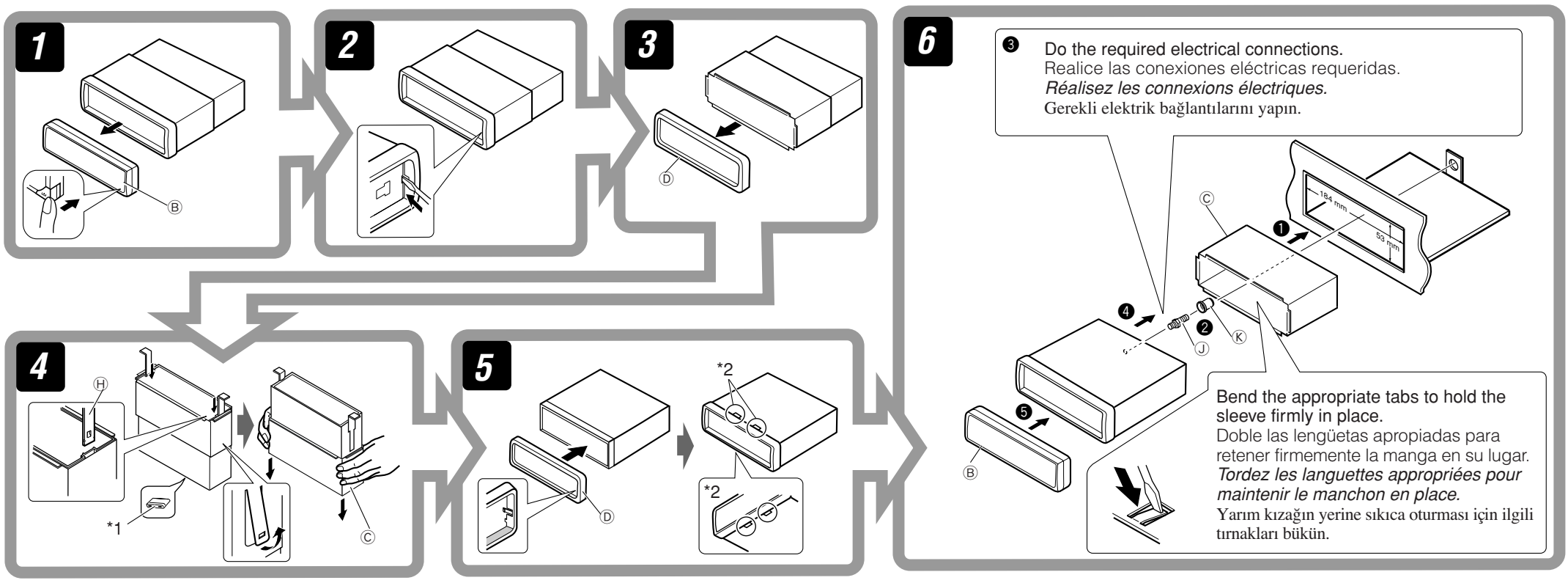
L'illustration suivante est un exemple d'installation typique. Si vous avez des questions ou avez besoin d'information sur des kits d'installation, consulter votre revendeur d'autoradios JVC ou une compagnie d'approvisionnement.

- *Si l'on n'est pas sûr de pouvoir installer correctement cet appareil, le faire installer par un technicien qualifié.*

MONTAJ (TABLOYA MONTELEME)

Tipik bir montaj, aşağıdaki şemada gösterilmektedir. Montaj kitleri hakkında sorularınız varsa, JVC TAŞIT İÇİ EĞLENCE bayiinize veya kit tedarik eden bir firmaya başvurun.

- Bu ünitenin gerektiği gibi nasıl monte edileceğinden emin değilseniz, montajı kalifiye bir teknisyene yaptırın.



*1 When you stand the unit, be careful not to damage the fuse on the rear.
*1 Al poner la unidad vertical, tenga cuidado de no dañar el fusible provisto en la parte posterior.
*1 *Lorsque vous mettez l'appareil à la verticale, faire attention de ne pas endommager le fusible situé sur l'arrière.*
*1 Üniteyi dik duruma getirdiğinizde, arkasındaki sigortaya hasar vermemeye dikkat edin.

*2 Fit the protrusions outside the unit.
*2 Haga encajar los salientes del exterior de la unidad.
*2 *Fixez les protubérances à l'extérieur de l'appareil.*
*2 Çıkıntıları ünitenin dışına takın.

Removing the unit

Before removing the unit, release the rear section.

Extracción de la unidad

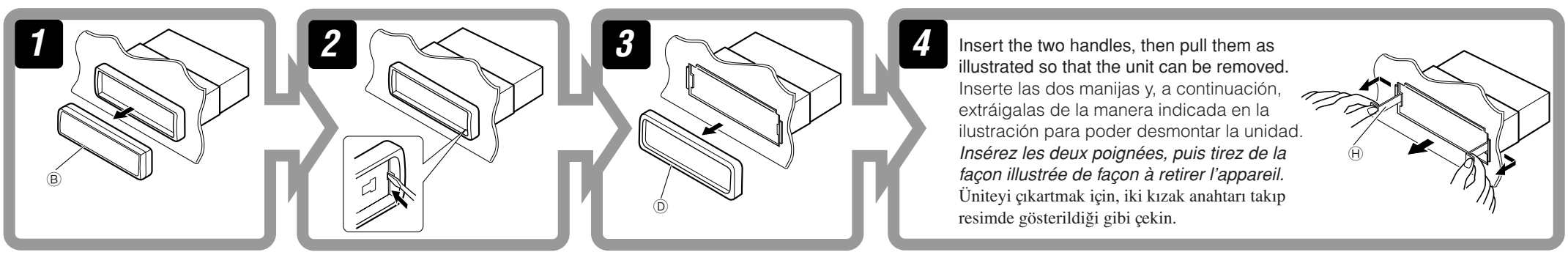
Antes de extraer la unidad, libere la sección trasera.

Retrait de l'appareil

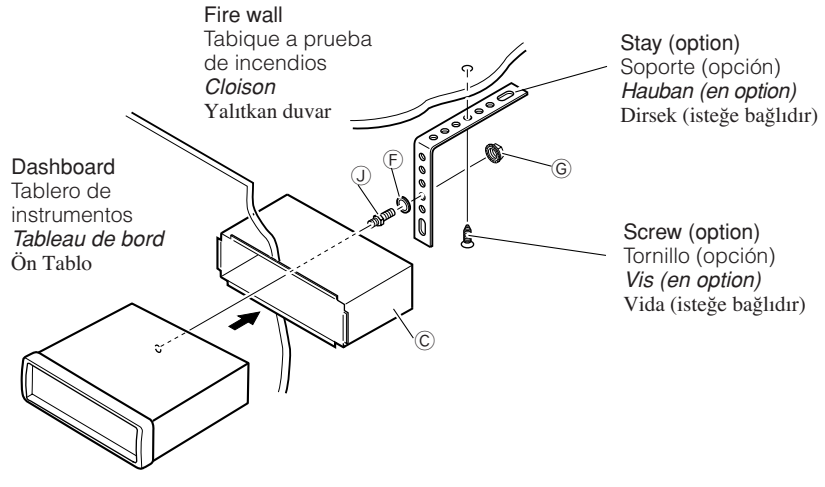
Avant de retirer l'appareil, libérer la section arrière.

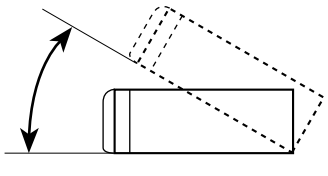
Ünitenin sökülmesi

Üniteyi sökmeden önce, arka kısmını serbest bırakın.


1
Ⓑ
2
3
Ⓓ
4
Insert the two handles, then pull them as illustrated so that the unit can be removed.
Inserte las dos manijas y, a continuación, extráigalas de la manera indicada en la ilustración para poder desmontar la unidad.
Insérez les deux poignées, puis tirez de la façon illustrée de façon à retirer l'appareil.
Üniteyi çıkartmak için, iki kızak anahtarı takıp resimde gösterildiği gibi çekin.
Ⓗ

When using the optional stay / Cuando emplea un soporte opcional / Lors de l'utilisation du hauban en option / İsteğe bağlı olarak dirsek kullanılması

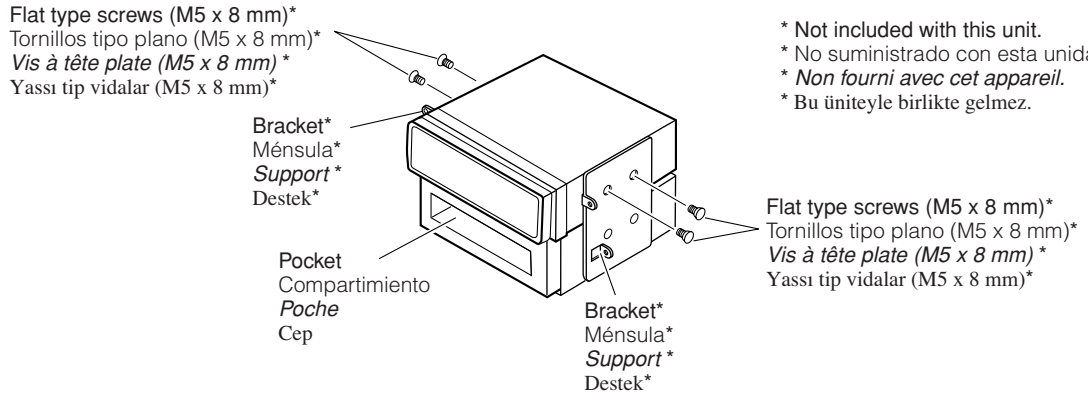




Install the unit at an angle of less than 30˚.
Instale la unidad a un ángulo de menos de 30˚.
Installez l'appareil avec un angle de moins de 30˚.
Üniteyi 30°'den daha küçük bir açıda monte edin.

When installing the unit without using the sleeve / Instalación de la unidad sin utilizar la cubierta / Lors de l'installation de l'appareil scans utiliser de manchon / Ünitenin yarım kızaksız monte edilmesi

In a Toyota for example, first remove the car radio and install the unit in its place.
En un Toyota por ejemplo, primero retire la radio del automóvil y luego instale la unidad en su lugar.
Par exemple dans une Toyota, retirer d'abord l'autoradio et installer l'appareil à la place.
Örneğin, Toyota marka otomobillerde, önce arabanın radyosunu sökün ve üniteyi radyonun yerine monte edin.



* Not included with this unit.
* No suministrado con esta unidad.
* *Non fourni avec cet appareil.*
* Bu üniteyle birlikte gelmez.

Note : When installing the unit on the mounting bracket, make sure to use the 8 mm-long screws. If longer screws are used, they could damage the unit.
Nota : Cuando instala la unidad en la ménsula de montaje, asegúrese de utilizar los tornillos de 8 mm de longitud. Si se utilizan tornillos más largos, éstos pueden dañar la unidad.
Remarque : *Lors de l'installation de l'appareil sur le support de montage, s'assurer d'utiliser des vis d'une longueur de 8 mm. Si des vis plus longues sont utilisées, elles peuvent endommager l'appareil.*
Not : Üniteyi montaj desteği üzerine monte ederken, 8 mm uzunlukta vida kullanın. Daha uzun vida kullanırsanız üniteye hasar verebilirsiniz.

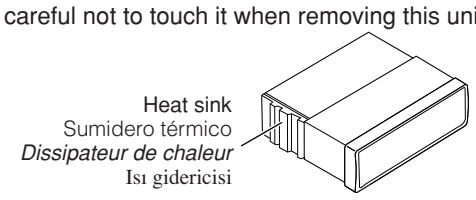
ELECTRICAL CONNECTIONS

To prevent short circuits, we recommend that you disconnect the battery's negative terminal and make all electrical connections before installing the unit.

- **Be sure to ground this unit to the car's chassis again after installation.**

Notes:

- Replace the fuse with one of the specified rating. If the fuse blows frequently, consult your JVC IN-CAR ENTERTAINMENT dealer.
- It is recommended to connect to the speakers with maximum power of more than 50 W (both at the rear and at the front, with an impedance of **4 Ω to 8 Ω**). If the maximum power is less than 50 W, change "Amp Gain" setting to prevent the speakers from being damaged (see page 37 of the INSTRUCTIONS).
- To prevent short-circuit, cover the terminals of the UNUSED leads with insulating tape.
- The heat sink becomes very hot after use. Be careful not to touch it when removing this unit.



CONEXIONES ELECTRICAS

Para evitar cortocircuitos, recomendamos que desconecte el terminal negativo de la batería y que efectúe todas las conexiones eléctricas antes de instalar la unidad.

- **Asegúrese de volver a conectar a masa esta unidad al chasis del automóvil después de la instalación.**

Notas:

- Reemplace el fusible por uno con la corriente especificada. Si el fusible se quemase frecuentemente consulte con su concesionario de JVC de equipos de audio para automóviles.
- Se recomienda conectar los altavoces con una potencia máxima de más de 50 W (tanto atrás como adelante, con una impedancia de **4 Ω a 8 Ω**). Si la potencia máxima es de menos de 50 W, cambie "Amp Gain" para evitar daños en los altavoces (consulte la página 37 del MANUAL DE INSTRUCCIONES).
- Para evitar cortocircuitos, cubra los cables NO UTILIZADOS con cinta aislante.
- El sumidero térmico estará muy caliente después del uso. Asegúrese de no tocarlo al desmontar esta unidad.

RACCORDEMENTS ELECTRIQUES

Pour éviter tout court-circuit, nous vous recommandons de débrancher la borne négative de la batterie et d'effectuer tous les raccordements électriques avant d'installer l'appareil.

- **Assurez-vous de raccorder de nouveau la mise à la masse de cet appareil au châssis de la voiture après l'installation.**

Remarques:

- *Remplacer le fusible par un de la valeur précisée. Si le fusible saute souvent, consulter votre revendeur d'autoradios JVC.*
- *Il est recommandé de connecter des enceintes avec une puissance de plus de 50 W (les enceintes arrière et les enceintes avant, avec une impédance comprise entre* **4 Ω** *et* **8 Ω***). Si la puissance maximum est inférieure à 50 W, changez "Gain Amp" pour éviter d'endommager vos enceintes (voir page 37 du MANUEL D'INSTRUCTIONS).*
- *Pour éviter les court-circuits, couvrir les bornes des fils qui ne sont PAS UTILISÉS avec de la bande isolante.*
- *Le dissipateur de chaleur devient très chaud après usage. Faire attention de ne pas le toucher en retirant cet appareil.*

ELEKTRİK BAĞLANTILARI

Kısa devreleri önlemek için, akünün negatif kutup bağlantısını sökmeniz ve tüm elektrik bağlantılarını üniteyi monte etmeden önce yapmanız tavsiye edilir.

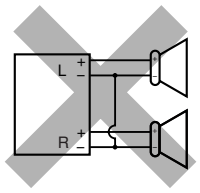
- **Üniteyi geri taktıktan sonra ünitenin, taşıt şasisine toprak bağlantısını yapmayı unutmayın.**

Notlar:

- Sigortayı değiştirmek gerektiğinde, belirtilen sınıftan bir sigortayla değiştirin. Sigorta sık sık atıyorsa, JVC TAŞIT İÇİ EĞLENCE bayiinize başvurun.
- Maksimum gücü 50 W'den daha fazla alan hoparlörlere (hem önde hem de arkada, **4 Ω ila 8 Ω** empedanslı) bağlamanız tavsiye edilir. Maksimum güç 50 W'den daha azsa, hoparlörlerin hasara uğramasını önlemek için "Amp Gain" i değiştirin (TALİMATLAR'ın 37 sayfasına bakın).
- Kısa devreleri önlemek için, KULLANILMAYAN tellerin uçlarını izole bantla kaplayın.
- Isı gidericisi, kullanımdan sonra çok ısınır. Üniteyi sökerken ısı gidericisine dokunmamaya dikkat edin.

PRECAUTIONS on power supply and speaker connections:

- **DO NOT connect the speaker leads of the power cord to the car battery; otherwise, the unit will be seriously damaged.**
- BEFORE connecting the speaker leads of the power cord to the speakers, check the speaker wiring in your car.

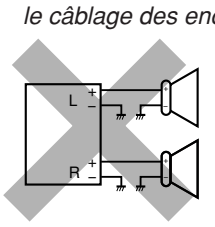


PRECAUCIONES sobre las conexiones de la fuente de alimentación y de los altavoces:

- **NO conecte los conductores de altavoz del cable de alimentación a la batería de automóvil, pues podrían producirse graves daños en la unidad.**
- ANTES de conectar a los altavoces los conductores de altavoz del cable de alimentación, verifique el conexionado de altavoz de su automóvil.

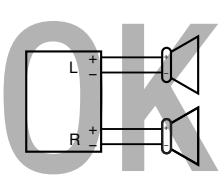
PRECAUTIONS sur l'alimentation et la connexion des enceintes:

- **NE CONNECTEZ PAS les fils d'enceintes du cordon d'alimentation à la batterie; sinon, l'appareil serait sérieusement endommagé.**
- *AVANT de connecter les fils d'enceintes du cordon d'alimentation aux enceintes, vérifiez le câblage des enceintes de votre voiture.*



Güç kaynağı ve hoparlör bağlantılarında alınması gereken TEDBİRLER:

- **Elektrik kablosunun hoparlör tellerini taşıtın aküsüne BAĞLAMAYIN; aksi takdirde ünite ciddi hasar görecektir.**
- Elektrik kablosunun hoparlör tellerini hoparlörlere bağlamadan ÖNCE, taşıtınızın hoparlör bağlantısını kontrol edin.



TROUBLESHOOTING

- **The fuse blows.**
* Are the red and black leads connected correctly?
- **Power cannot be turned on.**
* Is the yellow lead connected?
- **No sound from the speakers.**
* Is the speaker output lead short-circuited?
- **Sound is distorted.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?
- **Noise interfere with sounds.**
* Is the rear ground terminal connected to the car's chassis using shorter and thicker cords?
- **Unit becomes hot.**
* Is the speaker output lead grounded?
* Are the "–" terminals of L and R speakers grounded in common?

LOCALIZACIÓN DE AVERIAS

- **El fusible se quema.**
* ¿Están los conductores rojo y negro correctamente conectados?
- **No es posible conectar la alimentación.**
* ¿Está el cable amarillo conectado?
- **No sale sonido de los altavoces.**
* ¿Está el cable de salida del altavoz cortocircuitado?
- **El sonido presenta distorsión.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?
- **Perturbación de ruido.**
* ¿El terminal de tierra trasero está conectado al chasis del automóvil utilizando los cordones más corto y más grueso?
- **La unidad se calienta.**
* ¿Está el cable de salida del altavoz conectado a masa?
* ¿Están los terminales "–" de los altavoces L y R conectados a una masa común?

EN CAS DE DIFFICULTES

- **Le fusible saute.**
* *Les fils rouge et noir sont-ils racordés correctement?*
- **L'appareil ne peut pas être mise sous tension.**
* *Le fil jaune est-elle raccordée?*
- **Pas de son des enceintes.**
* *Le fil de sortie d'enceinte est-il court-circuité?*
- **Le son est déformé.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*
- **Interférence avec les sons.**
* *La prise arrière de mise à la terre est-elle connectée au châssis de la voiture avec un cordon court et épais?*
- **L'appareil devient chaud.**
* *Le fil de sortie d'enceinte est-il à la masse?*
* *Les bornes "–" des enceintes gauche et droit sont-elles mises ensemble à la masse?*

ARIZA GİDERME

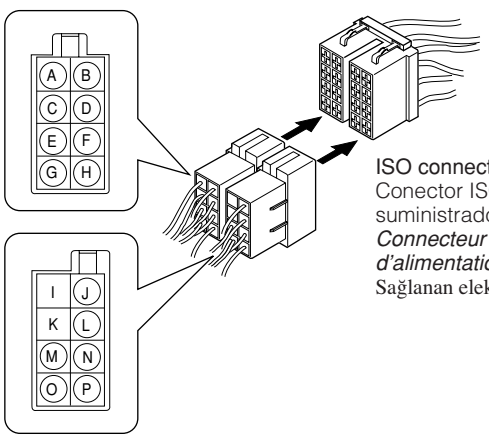
- **Sigorta atıyor.**
* Kırmızı ve siyah tellerin bağlantısı doğru mu?
- **Ünite çalışmıyor.**
* Sarı tel bağlı mı?
- **Hoparlörlerden ses gelmiyor.**
* Hoparlör çıkış telleri kısa devre yapıyor olabilir?
- **Seste distorsiyon var.**
* Hoparlör çıkış telinin toprak bağlantısı yapıldı mı?
* Sol ve sağ hoparlörlerin "–" uçlarının ortak toprak bağlantısı yapıldı mı?
- **Ses parazit yapıyor.**
* Arka topraklama terminali taşıtın şasisine daha kısa ve daha kalın tellerle bağlanmış mı?
- **Ünite ısınıyor.**
* Hoparlör çıkış telinin toprak bağlantısı yapıldı mı?
* Sol ve sağ hoparlörlerin "–" uçlarının ortak toprak bağlantısı yapıldı mı?

ENGLISH | ESPAÑOL | FRANÇAIS | TÜRKÇE

A

If your car is equipped with the ISO connector
Si su automóvil está equipado con el conector ISO
Si votre voiture est équippée d'un connecteur ISO
Taşıtınızda ISO konektörü varsa

- Connect the ISO connectors as illustrated.
- Conecte los conectores ISO tal como se indica en la ilustración.
- *Connectez les connecteurs ISO comme montré sur l'illustration.*
- ISO konektörlerini şekilde gösterildiği gibi takın.



From the car body
Desde la carrocería del vehículo
De la carrosserie de la voiture
Taşıtın gövdesinden

ISO connector of the supplied power cord
Conector ISO del cable de alimentación suministrado
Connecteur ISO pour le cordon d'alimentation fourni
Sağlanan elektrik kablosunun ISO konektörü

View from the lead side
Vista desde el lado del conductor
Vue à partir du côté des fils
Ara kablosu tarafından görünüm

For some VW/Audi or Opel (Vauxhall) automobile
Para algunos automóviles VW/Audi u Opel (Vauxhall)
Pour certaine voiture VW/Audi ou Opel (Vauxhall)
Bazı VW/Audi veya Opel (Vauxhall) marka otomobillerde

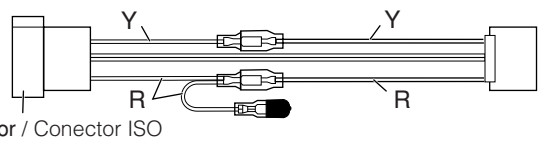
You may need to modify the wiring of the supplied power cord as illustrated.
- Contact your authorized car dealer before installing this unit.

Podría ser necesario modificar el conexionado del cable de alimentación suministrado, tal como se indica en la ilustración.
- Antes de instalar esta unidad, consulte a su concesionario de automóviles autorizado.

Vous aurrez peut-être besoin de modifier le câblage du cordon d'alimentation fourni comme montré sur l'illustration.
- *Contactez votre revendeur automobile autorisé avant d'installer l'appareil.*

Sağlanan elektrik kablosunun bağlantılarında şekilde gösterildiği değişiklik yapmanız gerekebilir.
- Bu üniteyi monte etmeden önce yetkili otomobil bayiinize başvurun.

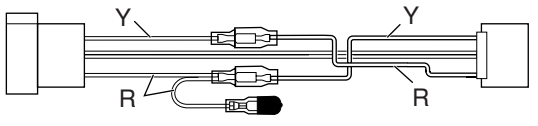
Original wiring
Conexionado original
Câblage original
Orijinal kablo bağlantısı



ISO connector / Conector ISO
Connecteur ISO / ISO konektörü

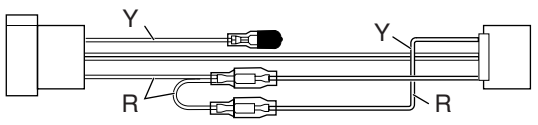
R: Red / Rojo / *Rouge* / Kırmızı
Y: Yellow / Amarillo / *Jaune* / Sarı

Modified wiring 1
Conexionado modificado 1
Câblage modifié 1
Değiştirilmiş kablo bağlantısı 1



Use modified wiring 2 if the unit does not turn on.
Si la unidad no se enciende, utilice el conexionado modificado 2.
Utilisez le câblage modifié 2 si l'appareil ne se met pas sous tension.
Ünite çalışmazsa, 2 numaralı değişikliği kullanın.

Modified wiring 2
Conexionado modificado 2
Câblage modifié 2
Değiştirilmiş kablo bağlantısı 2



B

Connections without using the ISO connectors / Conexiones sin usar los conectores ISO / Connexions sans l'utilisation des connecteurs ISO / ISO konektörü kullanılmadan bağlantı

Before connecting: Check the wiring in the vehicle carefully. Incorrect connection may cause serious damage to this unit.
The leads of the power cord and those of the connector from the car body may be different in colour.

1. Cut the ISO connector.
2. Connect the colored leads of the power cord in the order specified in the illustration below.
3. Connect the aerial cord.
4. Finally connect the wiring harness to the unit.

Antes de la conexión: Verifique atentamente el conexionado del vehículo. Una conexión incorrecta podría producir daños graves en la unidad.
Los cordones del cable de alimentación y los del conector procedentes de la carrocería del automóvil podrían ser de diferentes en color.

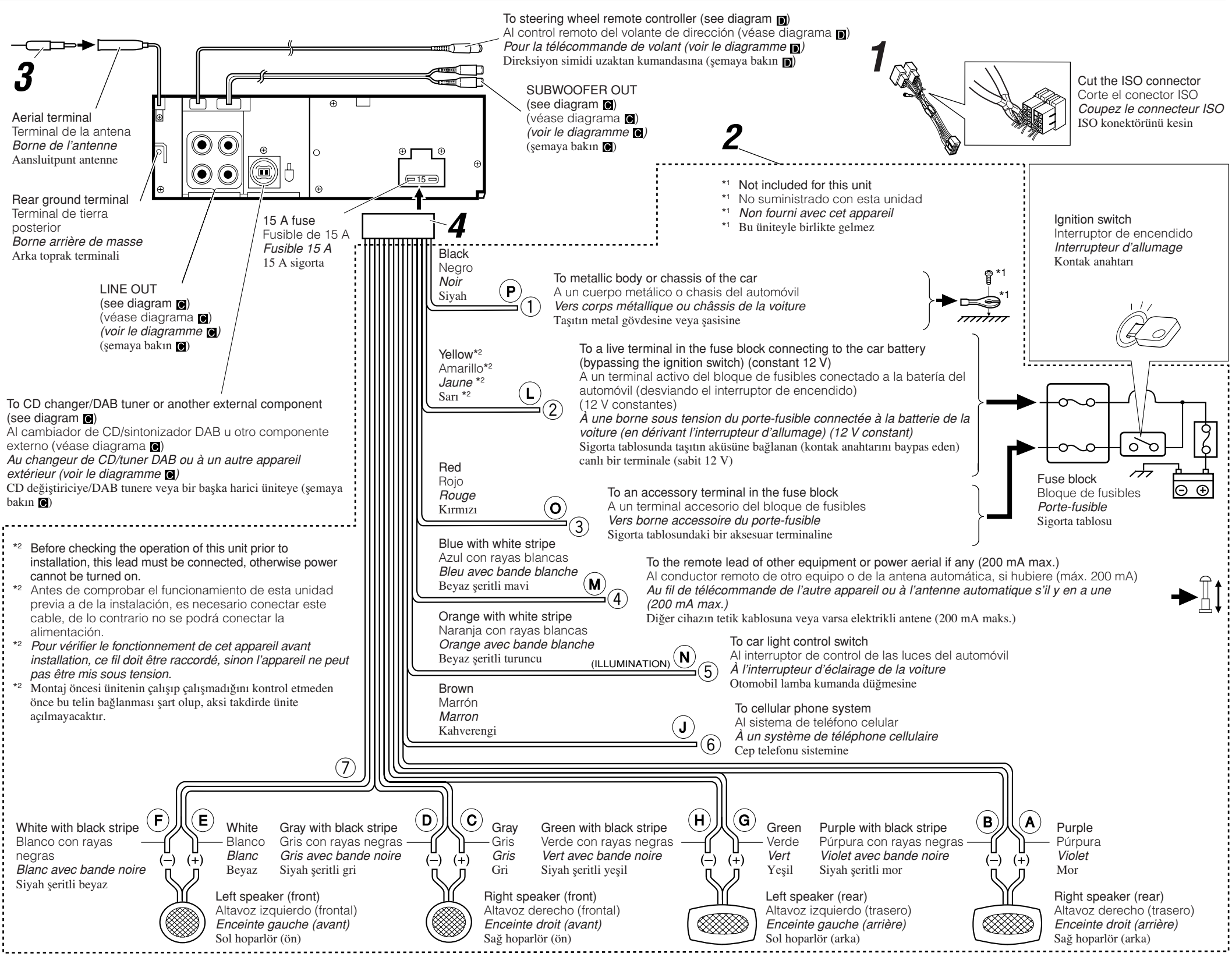
1. Corte el conector ISO.
2. Conecte los conductores de color del cable de alimentación en el orden especificado en la ilustración de abajo.
3. Conecte el cable de antena.
4. Por último, conecte el cable de alimentación a la unidad.

Avant de commencer la connexion: *Vérifiez attentivement le câblage du véhicule. Une connexion incorrecte peut endommager sérieusement l'appareil.*
Le fil du cordon d'alimentation et ceux des connecteurs du châssis de la voiture peuvent être différents en couleur.

1. *Coupez le connecteur ISO.*
2. *Connectez les fils colorés du cordon d'alimentation dans l'ordre spécifié sur l'illustration ci-dessous.*
3. *Connectez le cordon d'antenne.*
4. *Finalement, connectez le faisceau de fils à l'appareil.*

Bağlantıyı yapmadan önce: Taşıtın kablo bağlantısını dikkatle kontrol edin. Yanlış bağlantı yapılması, bu ünitede ciddi hasar oluşmasına yol açabilir.
Elektrik kablosunun telleri ve taşıtın gövdesinden gelen konektörün telleri ayrı renklerde olabilir.

1. ISO konektörünü kesin.
2. Elektrik kablosunun renkli uçlarını aşağıdaki resimde belirtilen düzende bağlayın.
3. Anten kablosunun bağlantısını yapın.
4. Son olarak, kablo demetini üniteye takın.


3
Aerial terminal
Terminal de la antena
Borne de l'antenne
Aansluitpunt antenne
Rear ground terminal
Terminal de tierra posterior
Borne arrière de masse
Arka toprak terminali
LINE OUT
(see diagram C)
(véase diagrama C)
(voir le diagramme C)
(şemaya bakın C)
To CD changer/DAB tuner or another external component
(see diagram C)
Al cambiador de CD/sintonizador DAB u otro componente externo (véase diagrama C)
Au changeur de CD/tuner DAB ou à un autre appareil extérieur (voir le diagramme C)
CD değiştiriciye/DAB tunere veya bir başka harici üniteye (şemaya bakın C)
To steering wheel remote controller (see diagram D)
Al control remoto del volante de dirección (véase diagrama D)
Pour la télécommande de volant (voir le diagramme D)
Direksiyon simidi uzaktan kumandasına (şemaya bakın D)
SUBWOOFER OUT
(see diagram C)
(véase diagrama C)
(voir le diagramme C)
(şemaya bakın C)
15
15 A fuse
Fusible de 15 A
Fusible 15 A
15 A sigorta
4
Black
Negro
Noir
Siyah
P
1
Yellow*2
Amarillo*2
Jaune *2
Sarı *2
L
2
Red
Rojo
Rouge
Kırmızı
O
3
Blue with white stripe
Azul con rayas blancas
Bleu avec bande blanche
Beyaz şeritli mavi
M
4
Orange with white stripe
Naranja con rayas blancas
Orange avec bande blanche
Beyaz şeritli turuncu
(ILLUMINATION)
N
5
Brown
Marrón
Marron
Kahverengi
J
6
7
*2 Before checking the operation of this unit prior to installation, this lead must be connected, otherwise power cannot be turned on.
*2 Antes de comprobar el funcionamiento de esta unidad previa a de la instalación, es necesario conectar este cable, de lo contrario no se podrá conectar la alimentación.
*2 *Pour vérifier le fonctionnement de cet appareil avant installation, ce fil doit être raccordé, sinon l'appareil ne peut pas être mis sous tension.*
*2 Montaj öncesi ünitenin çalışıp çalışmadığını kontrol etmeden önce bu telin bağlanması şart olup, aksi takdirde ünite açılmayacaktır.
1
Cut the ISO connector
Corte el conector ISO
Coupez le connecteur ISO
ISO konektörünü kesin
2
*1 Not included for this unit
*1 No suministrado con esta unidad
*1 *Non fourni avec cet appareil*
*1 Bu üniteyle birlikte gelmez
To metallic body or chassis of the car
A un cuerpo metálico o chasis del automóvil
Vers corps métallique ou châssis de la voiture
Taşıtın metal gövdesine veya şasisine
*1
*1
To a live terminal in the fuse block connecting to the car battery (bypassing the ignition switch) (constant 12 V)
A un terminal activo del bloque de fusibles conectado a la batería del automóvil (desviando el interruptor de encendido) (12 V constantes)
À une borne sous tension du porte-fusible connectée à la batterie de la voiture (en dérivant l'interrupteur d'allumage) (12 V constant)
Sigorta tablosunda taşıtın aküsüne bağlanan (kontak anahtarını baypas eden) canlı bir terminale (sabit 12 V)
To an accessory terminal in the fuse block
A un terminal accesorio del bloque de fusibles
Vers borne accessoire du porte-fusible
Sigorta tablosundaki bir aksesuar terminaline
Ignition switch
Interruptor de encendido
Interrupteur d'allumage
Kontak anahtarı
Fuse block
Bloque de fusibles
Porte-fusible
Sigorta tablosu
To the remote lead of other equipment or power aerial if any (200 mA max.)
Al conductor remoto de otro equipo o de la antena automática, si hubiere (máx. 200 mA)
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une (200 mA max.)
Diğer cihazın tetik kablosuna veya varsa elektrikli antene (200 mA maks.)
To car light control switch
Al interruptor de control de las luces del automóvil
À l'interrupteur d'éclairage de la voiture
Otomobil lamba kumanda düğmesine
To cellular phone system
Al sistema de teléfono celular
À un système de téléphone cellulaire
Cep telefonu sistemine
White with black stripe
Blanco con rayas negras
Blanc avec bande noire
Siyah şeritli beyaz
F
E
White
Blanco
Blanc
Beyaz
Gray with black stripe
Gris con rayas negras
Gris avec bande noire
Siyah şeritli gri
D
C
Gray
Gris
Gris
Gri
Green with black stripe
Verde con rayas negras
Vert avec bande noire
Siyah şeritli yeşil
H
G
Green
Verde
Vert
Yeşil
Purple with black stripe
Púrpura con rayas negras
Violet avec bande noire
Siyah şeritli mor
B
A
Purple
Púrpura
Violet
Mor
(–) (+)
Left speaker (front)
Altavoz izquierdo (frontal)
Enceinte gauche (avant)
Sol hoparlör (ön)
Right speaker (front)
Altavoz derecho (frontal)
Enceinte droit (avant)
Sağ hoparlör (ön)
Left speaker (rear)
Altavoz izquierdo (trasero)
Enceinte gauche (arrière)
Sol hoparlör (arka)
Right speaker (rear)
Altavoz derecho (trasero)
Enceinte droit (arrière)
Sağ hoparlör (arka)

C Connections Adding Other Equipment / Conexiones para añadir otros equipos / Raccordement pour ajouter d'autres appareils / Başka Ekipman Ekleme Bağlantıları

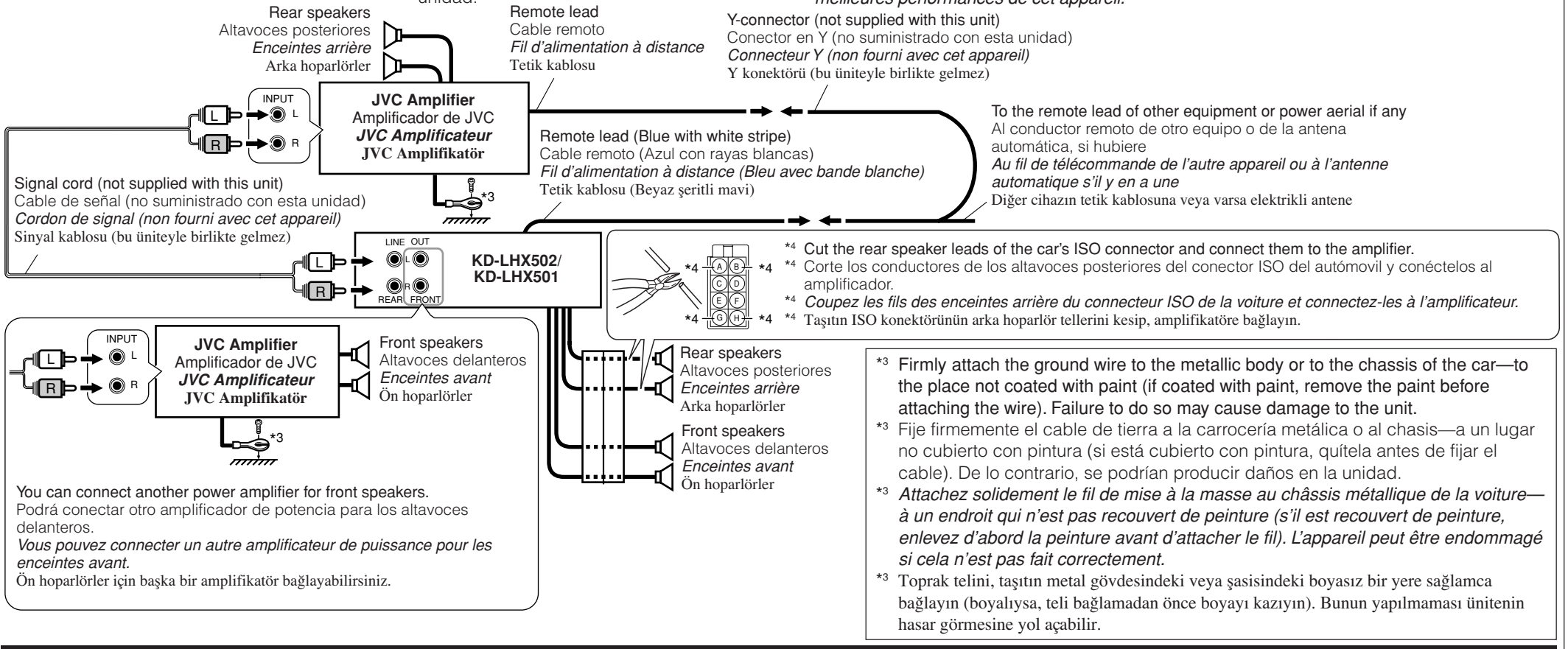
Amplifier / Amplificador / Amplificateur / Amplifikatör

You can connect an amplifier (and other equipment) to upgrade your car stereo system.
- Connect the remote lead (blue with white stripe) to the remote lead of the other equipment so that it can be controlled through this unit.
- **For amplifier only:**
  – **Disconnect the speakers from this unit, connect them to the amplifier. Leave the speaker leads of this unit unused.**
  – The line output level of this unit is kept high to maintain the hi-fi sounds reproduced from this unit.
  When connecting an external amplifier to this unit, turn down the gain control on the external amplifier to obtain the best performance from this unit.

Usted podrá conectar un amplificador y otros equipos para mejorar el sistema estéreo de su automóvil.
- Conecte el conductor remoto (azul con rayas blancas) al conductor remoto del otro equipo para poderlo controlar a través de esta unidad.
- **Sólo para el amplificador:**
  – **Desconecte los altavoces de esta unidad y conéctelos al amplificador. Los cables de los altavoces de esta unidad quedan sin usar.**
  – El nivel de salida de línea de esta unidad permanece alto para que corresponda con los sonidos de alta fidelidad reproducidos por esta unidad.
  Cuando conecte un amplificador externo a esta unidad, disminuya el control de ganancia del amplificador externo para obtener un óptimo rendimiento de esta unidad.

Vous pouvez connecter un amplificateur (et autre appareil) pour améliorer votre système autoradio.
- *Connectez le fil de commande à distance (bleu avec bande blanche) au fil de commande à distance de l'autre appareil de façon qu'il puisse être commandé via cet appareil.*
- **Pour l'amplificateur seulement:**
  – **Déconnectez les enceintes de cet appareil et connectez-les à l'amplificateur. Laissez les fils d'enceintes de cet appareil inutilisés.**
  – *Le niveau de sortie de ligne de cet appareil est maintenu à un niveau élevé pour maintenir une qualité Hi-Fi pour les sons reproduits par cet appareil.*
  Lors de la connexion d'un amplificateur extérieur à cet appareil, diminuez le réglage du gain sur l'amplificateur extérieur pour obtenir les meilleures performances de cet appareil.

Taşıtınızın müzik sistemini bir amplifikatör ve başka donanımlar da bağlayarak geliştirebilirsiniz.
- Diğer ekipmanın bu ünite aracılığıyla kumanda edilmesine olanak sağlamak için, tetik kablosunu (beyaz şeritli mavi), ekipmanın tetik kablosuna bağlayın.
- **Sadece amplifikatör içindir:**
  – **Hoparlörlerin bu üniteyle olan bağlantısın kesip, amplifikatöre bağlayın. Bu ünitenin hoparlör çıkışlarını kullanmayın.**
  – Bu ünitenin hat çıkış düzeyi bu üniteden üretilen HI-FI seslerin bozulmaması için yüksek tutulmuştur.
  Bu üniteye bir harici amplifikatör bağlayacağınız zaman, bu üniteden en iyi performansı elde etmek için harici amplifikatörün kazanç kontrol ayarını kısın.


Rear speakers
Altavoces posteriores
Enceintes arrière
Arka hoparlörler
Remote lead
Cable remoto
Fil d'alimentation à distance
Tetik kablosu
Y-connector (not supplied with this unit)
Conector en Y (no suministrado con esta unidad)
Connecteur Y (non fourni avec cet appareil)
Y konektörü (bu üniteyle birlikte gelmez)
INPUT
L
R
JVC Amplifier
Amplificador de JVC
JVC Amplificateur
JVC Amplifikatör
*3
To the remote lead of other equipment or power aerial if any
Al conductor remoto de otro equipo o de la antena automática, si hubiere
Au fil de télécommande de l'autre appareil ou à l'antenne automatique s'il y en a une
Diğer cihazın tetik kablosuna veya varsa elektrikli antene
Remote lead (Blue with white stripe)
Cable remoto (Azul con rayas blancas)
Fil d'alimentation à distance (Bleu avec bande blanche)
Tetik kablosu (Beyaz şeritli mavi)
Signal cord (not supplied with this unit)
Cable de señal (no suministrado con esta unidad)
Cordon de signal (non fourni avec cet appareil)
Sinyal kablosu (bu üniteyle birlikte gelmez)
LINE OUT
REAR
FRONT
KD-LHX502/
KD-LHX501
*4
Front speakers
Altavoces delanteros
Enceintes avant
Ön hoparlörler
Rear speakers
Altavoces posteriores
Enceintes arrière
Arka hoparlörler
Front speakers
Altavoces delanteros
Enceintes avant
Ön hoparlörler
You can connect another power amplifier for front speakers.
Podrá conectar otro amplificador de potencia para los altavoces delanteros.
Vous pouvez connecter un autre amplificateur de puissance pour les enceintes avant.
Ön hoparlörler için başka bir amplifikatör bağlayabilirsiniz.

*4 Cut the rear speaker leads of the car's ISO connector and connect them to the amplifier.
*4 Corte los conductores de los altavoces posteriores del conector ISO del autómovil y conéctelos al amplificador.
*4 *Coupez les fils des enceintes arrière du connecteur ISO de la voiture et connectez-les à l'amplificateur.*
*4 Taşıtın ISO konektörünün arka hoparlör tellerini kesip, amplifikatöre bağlayın.

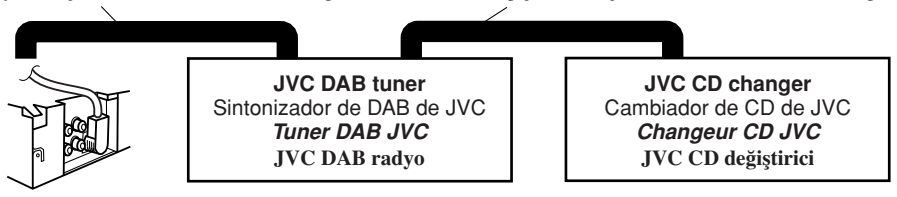
*3 Firmly attach the ground wire to the metallic body or to the chassis of the car—to the place not coated with paint (if coated with paint, remove the paint before attaching the wire). Failure to do so may cause damage to the unit.
*3 Fije firmemente el cable de tierra a la carrocería metálica o al chasis—a un lugar no cubierto con pintura (si está cubierto con pintura, quítela antes de fijar el cable). De lo contrario, se podrían producir daños en la unidad.
*3 *Attachez solidement le fil de mise à la masse au châssis métallique de la voiture—à un endroit qui n'est pas recouvert de peinture (s'il est recouvert de peinture, enlevez d'abord la peinture avant d'attacher le fil). L'appareil peut être endommagé si cela n'est pas fait correctement.*
*3 Toprak telini, taşıtın metal gövdesindeki veya şasisindeki boyasız bir yere sağlamca bağlayın (boyalıysa, teli bağlamadan önce boyayı kazıyın). Bunun yapılmaması ünitenin hasar görmesine yol açabilir.

CD changer and DAB tuner / Cambiador de CD y sintonizador de DAB / Changeur CD et tuner DAB / CD değiştirici ve DAB radyo

Refer also to the notes on pages 44 and 52 of the INSTRUCTIONS.
Consulte también las notas de las páginas 44 y 52 de las MANUAL DE INSTRUCCIONES.
Référez-vous aussi aux remarques de la pages 44 et 52 du MANUEL D'INSTRUCTIONS.
Ayrıca 44. ve 52 sayfadaki TALİMATLAR kısmının notlarına bakın.

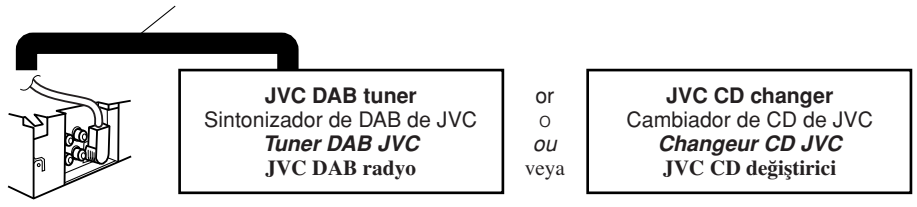
Connecting cord supplied for your DAB tuner
Cable de conexión suministrado con su sintonizador de DAB
Cordon de connexion fourni avec votre tuner DAB
DAB radyonuz için tedarik edilen kablonun bağlanması

Connecting cord supplied for your CD changer
Cable de conexión suministrado con su cambiador de CD
Cordon de connexion fourni avec votre changeur CD
CD değiştiriciniz için tedarik edilen kablonun bağlanması



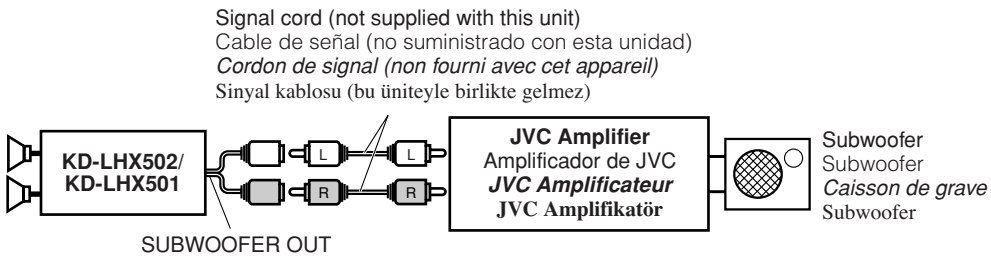
- You can connect both components in series as illustrated above.
- Podrá conectar ambos componentes en serie, como se indica en las ilustraciones de arriba.
- *Vous pouvez connecter les deux appareils en série comme montré ci-dessus.*
- Her iki parçayı da yukarıda gösterildiği gibi seri olarak bağlayabilirsiniz.

Connecting cord supplied for your DAB tuner or CD changer
Cable de conexión suministrado con su sintonizador de DAB o cambiador de CD
Cordon de connexion fourni avec votre tuner DAB ou changeur CD
DAB radyonuz veya CD değiştiriciniz için tedarik edilen kablonun bağlanması

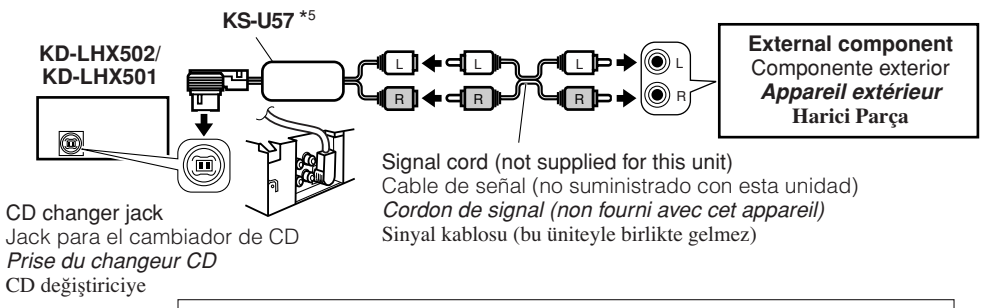


CAUTION / PRECAUCIÓN / PRECAUTION / DİKKAT:
- Before connecting the CD changer and/or the DAB tuner, make sure that the unit is turned off.
- Antes de conectar el cambiador de CD y/o un sintonizador de DAB, asegúrese de que la unidad esté apagada.
- *Avant de connecter le changeur CD et/ou le tuner DAB, s'assurer que l'unité est éteinte.*
- CD değiştiriciyi ve/veya DAB radyoyu bağlamadan önce ünitenin kapalı olduğundan emin olun.

Subwoofer / Subwoofer / Caisson de grave / Subwoofer



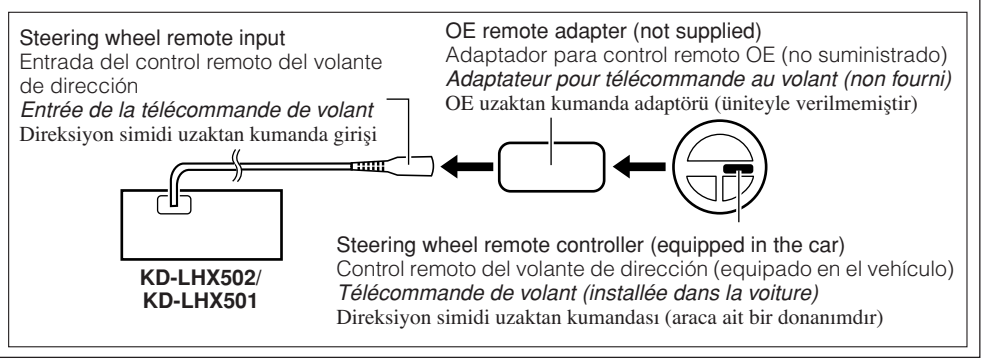
External Component / Componente exterior / Appareil extérieur / Harici Parça



*5 Line Input Adapter KS-U57 (not supplied with this unit)
*5 Adaptador de entrada de línea KS-U57 (no suministrado con esta unidad)
*5 *Adaptateur d'entrée de ligne KS-U57 (non fourni avec cet appareil)*
*5 Hat Giriş Adaptörü KS-U57 (bu üniteyle birlikte verilmez)

D Connecting to the steering wheel remote controller / Conexión al control remoto del volante de dirección / Connexion de la télécommande de volant / Direksiyon simidi uzaktan kumandasına bağlanması

If your car is equipped with the steering wheel remote controller, you can operate this receiver using the controller. To do it, a JVC's OE remote adapter (not supplied) which matches with your car is required. Consult your JVC IN-CAR ENTERTAINMENT dealer for details.
Si su vehículo está equipado con control remoto en el volante de dirección, podrá hacer funcionar este receptor utilizando dicho control. Para ello, se requiere un adaptador para control remoto OE de JVC (no suministrado) que corresponda con su vehículo. Para mayor información, consulte con su concesionario car audio de JVC.
Si votre voiture est munie d'une télécommande de volant, vous pouvez commander cet autoradio en utilisant la télécommande. Pour le faire, un adaptateur pour télécommande au volant JVC (non fourni) correspondant à votre voiture est nécessaire. Consultez votre revendeur d'autoradio JVC pour les détails.
Taşıtınız direksiyon simidi uzaktan kumandası ile donatılmışsa kumanda vasıtasıyla bu alıcıyı kullanabilirsiniz. Bunu yapmak için taşıtınıza uygun bir JVC OE uzaktan kumanda adaptörü (üniteyle verilmemiştir) gereklidir. Ayrıntılar için JVC ARAÇ İÇİ EĞLENCE SİSTEMLERİ bayiinize danışın.


Steering wheel remote input
Entrada del control remoto del volante de dirección
Entrée de la télécommande de volant
Direksiyon simidi uzaktan kumanda girişi
OE remote adapter (not supplied)
Adaptador para control remoto OE (no suministrado)
Adaptateur pour télécommande au volant (non fourni)
OE uzaktan kumanda adaptörü (üniteyle verilmemiştir)
KD-LHX502/
KD-LHX501
Steering wheel remote controller (equipped in the car)
Control remoto del volante de dirección (equipado en el vehículo)
Télécommande de volant (installée dans la voiture)
Direksiyon simidi uzaktan kumandası (araca ait bir donanımdır)